Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.





Economic Research Service

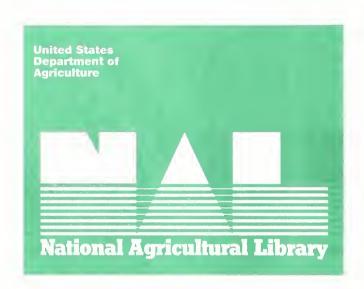
December 1986

Outlook '87 Charts

63rd Annual Agricultural Outlook Conference

Reserve aHD1755 .A37 1986







Outlook '87 Charts

63rd Annual Agricultural
Outlook Conference

December 1986



Outlook '87 Charts

Presented at the 63rd Annual Agricultural
Outlook Conference, December 2 - 4, 1986
U.S. Department of Agriculture, Washington, D.C.

The black and white reproducible charts and tables in this publication were originally presented as color slides before the Outlook Conference. This publication does not include all visuals used at the Conference, because not all speakers used slides or provided material for this compilation.



World and U.S. Agricultural Outlook

James R. Donald

- 9 Beef Production, Price and Net Returns Broiler Production, Price and Net Returns
- 10 World Cotton Trade World Crop Trade -- Wheat, Coarse Grains and Soybeans
- 11 World Soybean Trade World Wheat Trade
- 12 U.S. Per Capita Meat Consumption World Corn Trade
- 13 Soviet Wheat and Feed Grain Imports as Share of Domestic Consumption Total U.S. Crop Use and Stocks-to-Use Ratio
- 14 Net Outlays for U.S. Farm Programs Pork Production, Price and Net Returns
- 15 Gross and Net Cash Farm Income Net Cash Farm Income
- 16 Global Crop Production and Ratio of Production to Consumption Grain Import Growth Abroad
- 17 Crop Production and Demand Growth Abroad Economic Growth Rates Abroad
- 18 Changes in Consumer Price Indexes
 Chinese Wheat and Feed Grain Imports and Imports as Share of Domestic Consumption



Feed Grain Situation and Outlook

David B. Hull

- 19 Animal Units, Feed Use, and Prices Foreign Coarse Grain Production and Use
- 20 Wheat's Share of Total Grains Fed World Coarse Grain Production and Use
- 21 World Coarse Grain Trade
 World Coarse Grain Trade (Table)



22 U.S. Per Capita Consumption of Sweeteners



1987 Outlook for Sugar and Sweeteners

Robert D. Barry

- 22 U.S. Sugar and Corn Sweetener Deliveries
- 23 U.S. Sugar Production: Beet, Cane, and Total Estimated Quantity of Sugar in Selected Food Imports (Table)
- 24 U.S. Average Retail Price for Sugar (Table) Returns to Management and Risk (Table)
- 25 Sugar and Corn Sweetener Deliveries (Table)U.S. Cane Sugar Refining Capacity (Table)
- U.S. Imports of Raw Sugar (Table)U.S. Prices for Raw Sugar (N.Y.) (Table)
- 27 U.S. Sugar Production (Table)



Outlook for Dairy

James J. Miller

- 27 All Milk Price
- 28 Commercial Use of All Dairy Products
 Dairy Product Stocks
- 29 Milk Cows on Farms, 21 States Milk Marketings and Commercial Use
- 30 Milk Production Per Cow, 21 States Retail Price Indexes
- 31 USDA Dairy Product Purchases U.S. Milk Production



Outlook for Cattle

Ronald A. Gustafson

- 32 Average Dressed Weight of Cattle Beef Exports
- 33 Beef Imports
 Choice Steer Prices, Omaha
- 34 Commercial Beef ProductionMedium No. 1 Feeder Steer Prices, Kansas City
- 35 Per Capita Red Meat and Poultry Consumption Percent of Cow Herd Slaughtered
- 36 Returns to U.S. Fed Beef Producers U.S. Cattle and Calf Inventory
- 37 Beef Prices and Consumption (Table) Feeder Cattle Supply (Table)



- 38 Barrow and Gilt Prices, Seven Markets Commercial Pork Production
- 39 Farrow to Finish Costs of Production Feeder Pig Production Costs
- 40 Hogs and Pigs Inventory, December 1 Live Hogs Imported from Canada
- 41 Omaha Hog/Corn Price Ratio Pork Cold Storage Stocks
- 42 Pork Exports
 Pork Product Imports
- 43 Retail Pork Prices
 Sows Farrowing and Litter Rates (June Aug.)
- 44 Sow Slaughter/Hog Slaughter Ratio



Outlook for Poultry and Eggs

Allen J. Baker

- 44 12 City Composite Broiler Price
- 45 Broiler Placements, 7 14 Months Earlier
 Egg Exports as Percent of Total Production
- 46 Egg Production
 Estimated Net Returns for Broilers
- 47 Estimated Net Returns for Eggs
 Estimated Net Returns for Turkeys
- 48 F.I. Turkey Slaughter F.I. Young Chicken Slaughter
- 49 Grade A Large Egg Prices
 Hatchability of Broiler Type Eggs
- 50 Per Capita Egg Disappearance Pullets Entering Table - Egg Flocks
- 51 Turkey Exports as Percent of Total Production Wholesale Prices for 8 to 16-lb. Hen Turkeys
- 52 Young Chicken Exports as Percent of Total Production



U.S. and World Cotton Outlook

Russell G. Barlowe

- 52 World Cotton Prices
- 53 World Cotton Prices and Stocks to Use Ratio World Cotton Area Versus Prices
- 54 World Cotton Consumption
 World Cotton Consumption Versus Prices
- 55 Cotton Price Ratio and U.S. Export Share World Cotton Production, Consumption and Stocks
- 56 World Cotton Trade

- 56 U.S. Cotton Production, Disappearance and Stocks
- 57 World Cotton Area, Yield and Production World Cotton Consumption and Imports
- 58 World Cotton Production, Consumption and Stocks



1987 Outlook for Vegetables

Shannon R. Hamm

- 58 Fresh Vegetable Supplies
- 59 Fresh Vegetable Trade Net Potato Trade
- 60 Per Capita Potato Use: Table Stock and Processing Per Capita Vegetable Use
- 61 Processed Vegetable Trade Processing Vegetable Supplies
- 62 Vegetable Price Indexes



1987 Outlook for Fruit

Ben W. Huang

- 62 Florida Supply and Movement of FCOJ
- 63 Raisins: Domestic Supply and Producer Price Index Stocks of Selected Canned Fruit, October 1
- 64 Per Capita Fruit Consumption Projected Florida Citrus Production
- 65 U.S. Orange Bearing Acreage U.S. Tree Nut Production
- 66 Consumer Price Index for Fresh Fruit (Table)
 Consumer Price Index for Processed Fruit (Table)
- 67 Grower Prices for Fresh and Processing Fruit (Table)
 U.S. Citrus Production (Table)
- 68 U.S. Production of Selected Noncitrus Fruit (Table)



1987 Outlook for Tobacco

Verner N. Grise

- 68 Burley Tobacco Supply
- 69 Burley Use
 Cigarettes Produced and Tobacco Used
- 70 Cigarettes: Low Tar Market Share Consumer Price Index and Cigarette Prices
- 71 Export Markets for U.S. Tobacco Flue Cured Tobacco Supply
- 72 Flue Cured Use
 Per Capita Consumption of Tobacco Products
- 73 Per Capita Cigarette Consumption

- 73 Tobacco Acreage, Yield, and Production
- 74 Tobacco Use in Cigarettes
 U.S. and World Tobacco Production
- 75 World Cigarette Output



1987 Outlook for Food Prices

Ralph L. Parlett, Jr.

- 75 All Food CPI
- 76 Farm Prices of Food Commodities Food at Home CPI
- 77 Food Away From Home CPI Food Processing and Distribution Charges
- 78 Fruits and Vegetables CPI Red Meat CPI
- 79 Retail Food Prices Shares of the Food Dollar



Implications of Demographic and Socioeconomic Changes for Food Expenditures

James R. Blavlock

- 80 Change in National Food Expenditures, 1980 2005 Food Expenditure Change Due to Age Distribution, 1980 - 2005
- Food Expenditure Change Due to Racial Balance, 1980 2005
 Food Expenditure Change Due to Regional Change, 1980 2005
- 82 Food Expenditure Change Due to Income Growth, 1980 2005 Food Expenditures: Net Change 1980 - 2005
- 83 Food Expenditures by Age Group 1980 81 (Parts I and II)
- 84 Food Expenditures by Race, 1980 81
 Food Purchases Which Increase with Income



Outlook for Farm Income

Gary Lucier

- 85 Cash Receipts for Program and Nonprogram Commodities Cash Receipts in the 1980's
- 86 Direct Government Payments
 Direct Government Payments and Net CCC Loans
- 87 Farm Output and Input
 Gross Income, Expenses, and Net Farm Income
- 88 Interest Expenses

 Manufactured Input Expenses
- 89 Net Cash Income Prices Received and Paid by Farmers
- 90 Production Expenses
 U.S. Farm Income (Table)

- 91 Balance Sheet Components by Type of Farm Commercial Farms by Type and Financial Condition, 1985
- 92 Rate of Return to Farm Production Assets
 Return to Equity
- 93 Farms Selling \$40,000+ by Type and Financial Condition, 1985 Non-CCC Farm Debt by Type of Lender
- 94 Farm Debt Compared with Income Flows to Farm Production Assets Farm Production Assets and Returns
- 95 Farm Sector Assets, Debts, and EquityFarms Selling \$40,000+ by Region and Financial Condition, 1985
- 96 Distribution of Balance Sheet Components by Farm Type (Table)
 Distribution of Commercial Farm Operators by Financial Position (Table)
- 97 Distribution of Income Sources by Farm Type (Table) Farm Income, Returns, Assets, and Debts (Parts I, II, III) (Table)
- 99 Farm Sector Balance Sheet, Excluding Dwellings (Table) Farms and Farm Operator Debt (Table)
- 100 Flow of Funds to Farm Sector (Parts I and II) (Table)



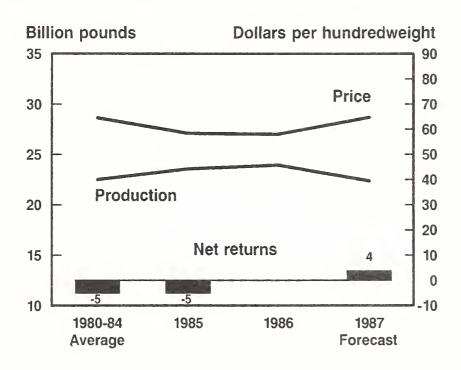
Technology and Farm Profitability and Productivity

John Miranowski

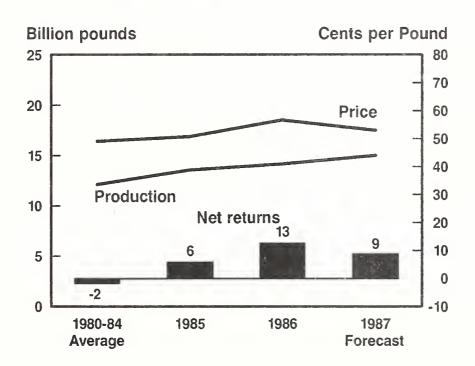
- 101 Cost Reducing Technology -- Early Adoption (Table)
 Cost Reducing Technology -- Widespread Adoption (Table)
- 102 Input Indices (Table)Output Increasing Technology -- Early Adoption (Table)
- 103 Output Increasing Technology -- Widespread Adoption (Table) Productivity Indices (Table)

A copy of the Conference proceedings is available for \$15 through the World Agricultural Outlook Board, Room 5143 - South Building, USDA, Washington, D.C. 20250.

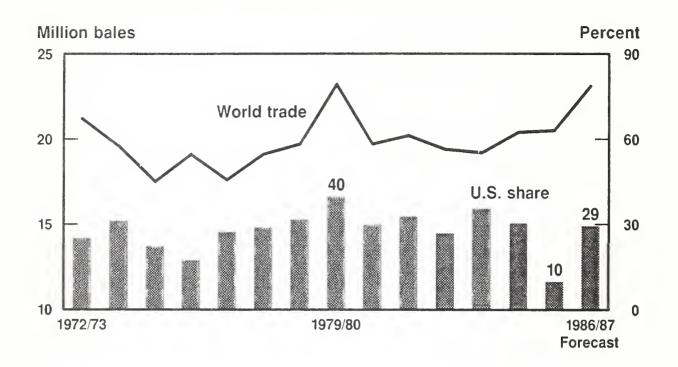
Beef Production, Price and Net Returns



Broiler Production, Price and Net Returns

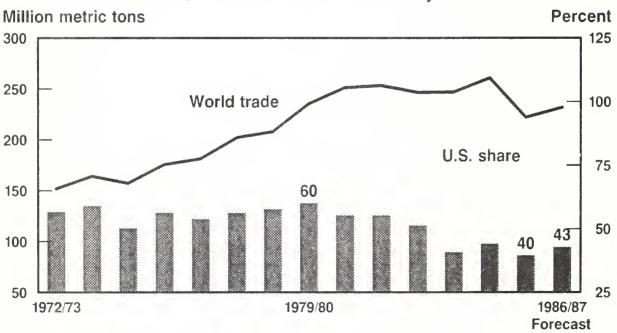


World Cotton Trade



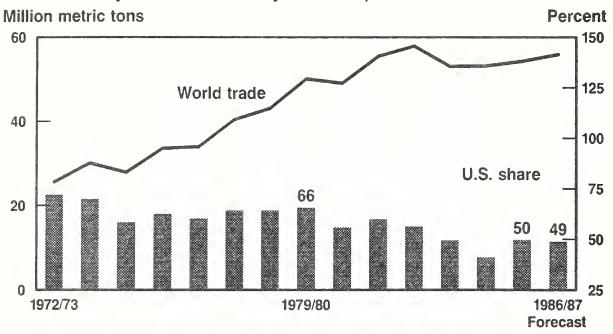
World Crop Trade

Wheat, Coarse Grains and Soybeans

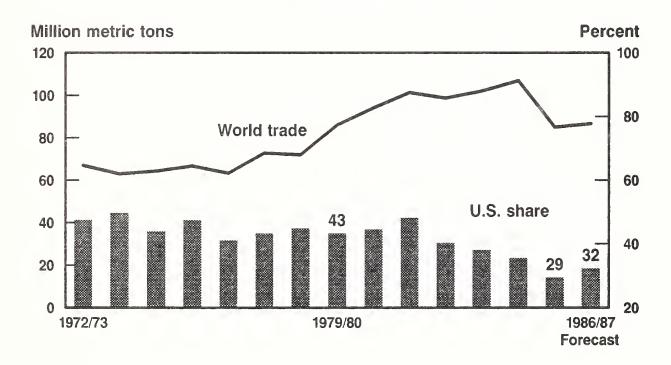


World Soybean Trade

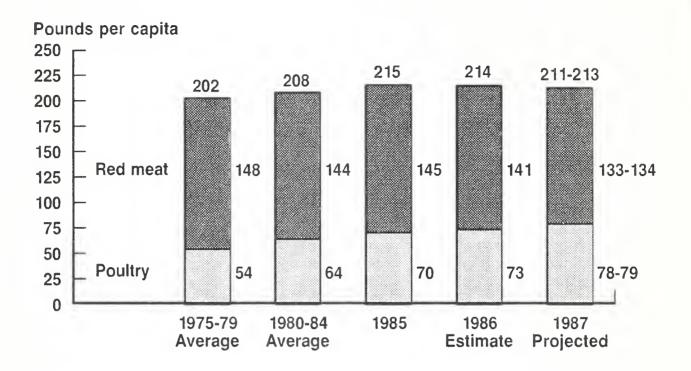
Soybeans Plus Soybean Equivalent of Meal



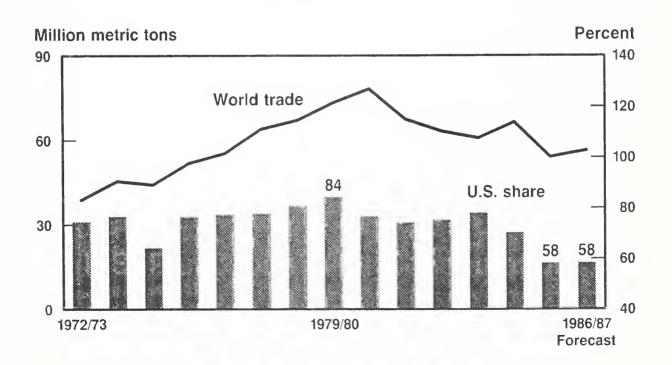
World Wheat Trade



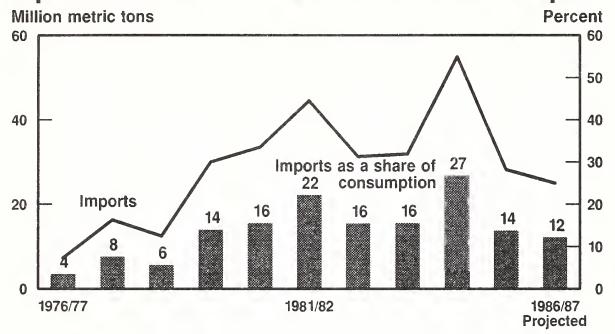
U.S. Per Capita Meat Consumption



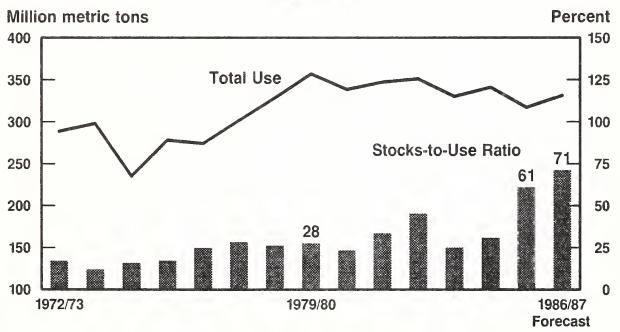
World Corn Trade



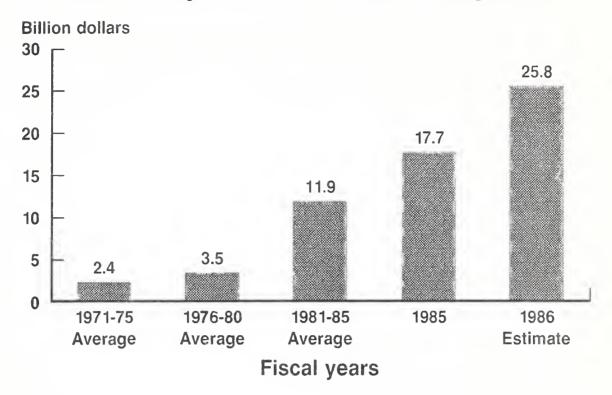
Soviet Wheat and Feed Grain Imports and Imports As Share of Domestic Consumption



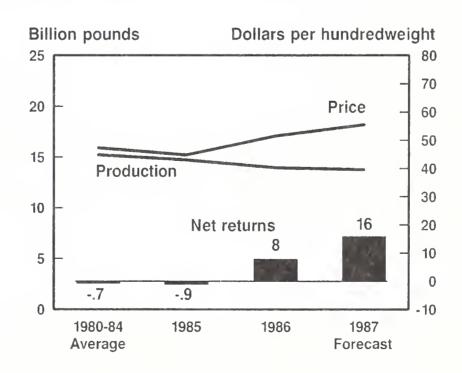
Total U.S. Crop Use and Stocks-To-Use Ratio



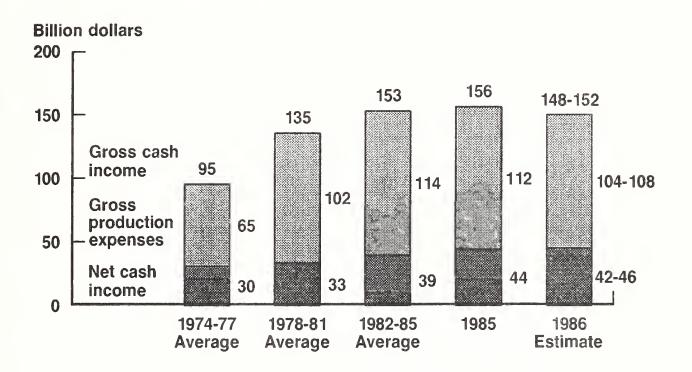
Net Outlays for U.S. Farm Programs



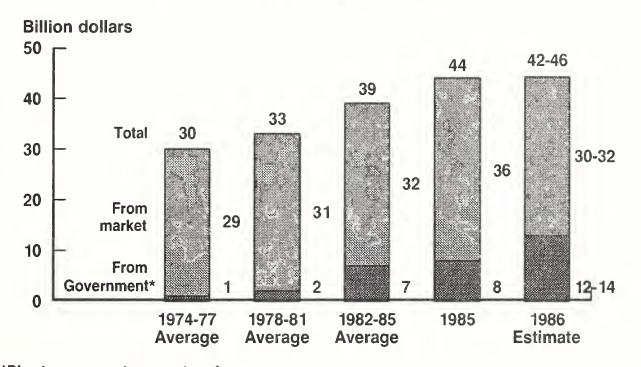
Pork Production, Price and Net Returns



Gross and Net Cash Farm Income

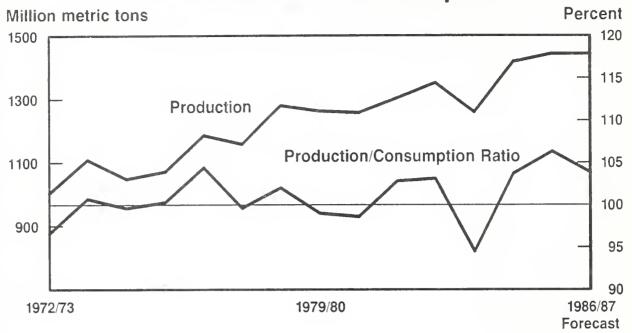


Net Cash Farm Income



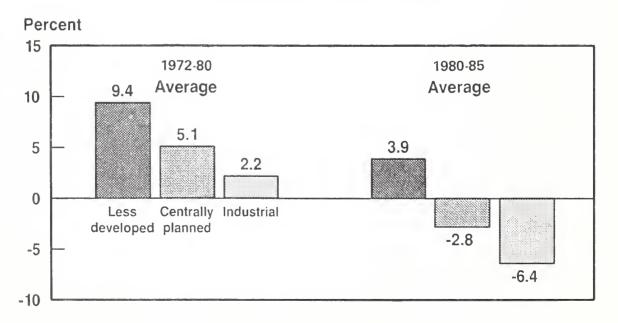
^{*}Direct government payments only.

Global Crop Production and Ratio of Production to Consumption

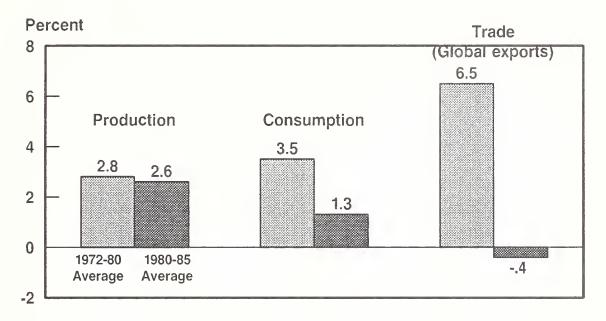


Grain Import Growth Abroad

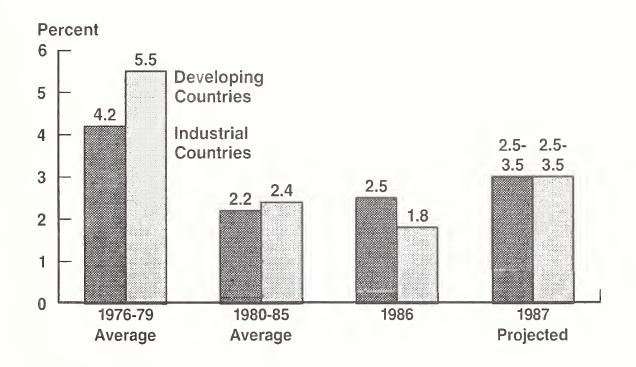
Wheat and Feed Grains



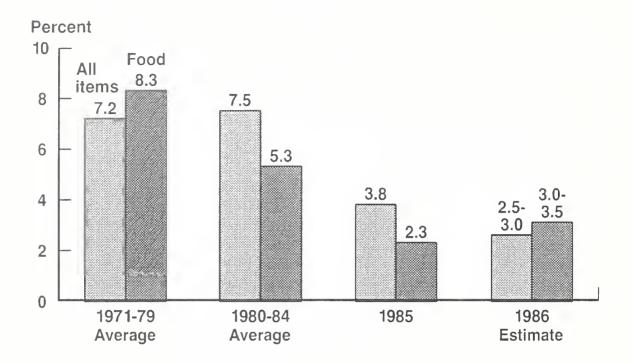
Crop Production and Demand Growth Abroad



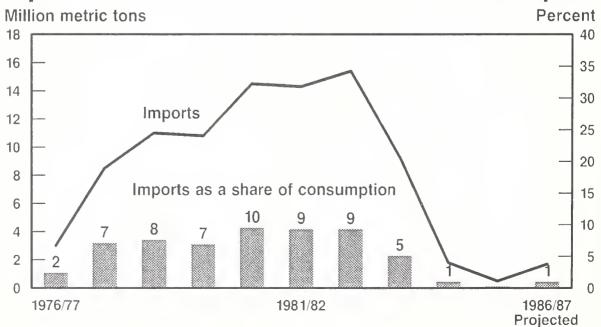
Economic Growth Rates Abroad



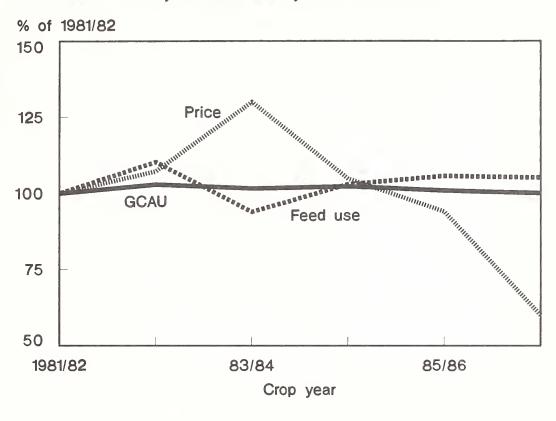
Changes in Consumer Price Indexes



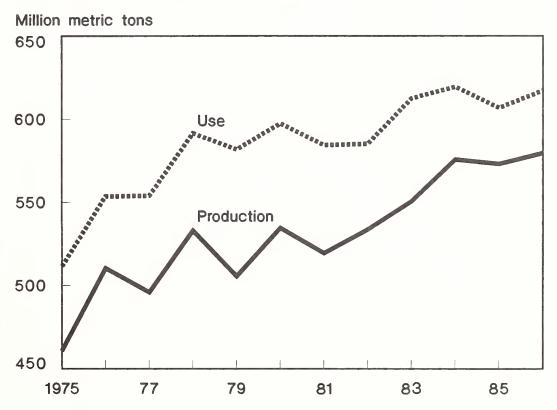
Chinese Wheat and Feed Grain Imports and Imports As Share of Domestic Consumption



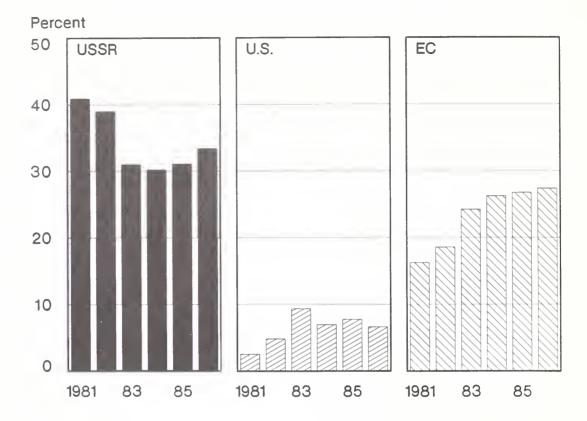
Animal Units, Feed Use, and Prices



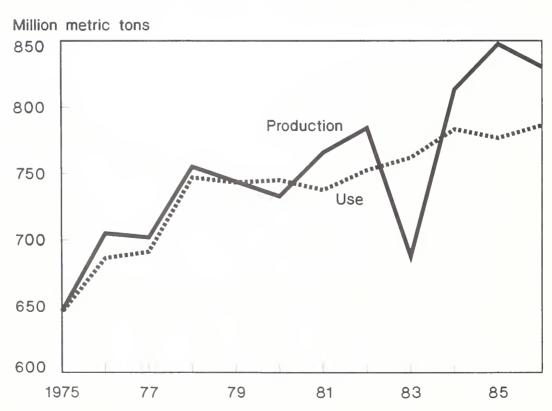
Foreign Coarse Grain Production and Use



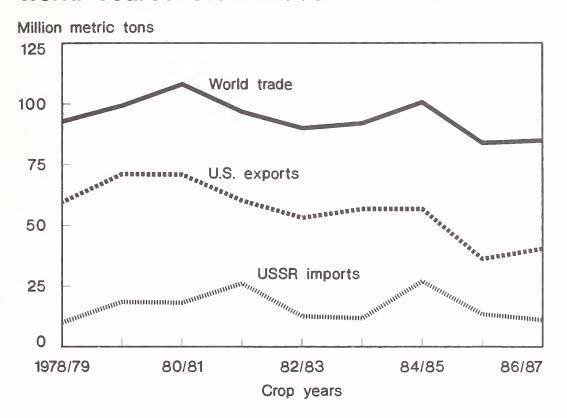
Wheat's Share of Total Grains Fed



World Coarse Grain Production and Use



World Coarse Grain Trade



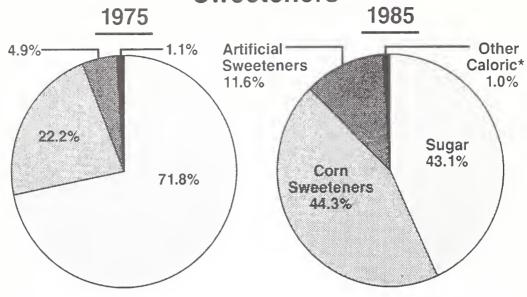
World Coarse Grain Trade

	1985/86	1986/87	Change
Exports		Million metric tons	
U.S.	36.4	40.4	4.0
Argentina	9.7	9.9	0.2
West Europe	10.2	7.3	-2.9
China	6.8	6.0	-0.8
Australia	5.1	3.8	-1.3
Canada	5.8	6.5	0.7
East Europe	2.4	3.7	1.3
Others	7.4	7.2	-0.2
Total	83.8	84.8	1.0
<u>Imports</u>			
Japan	21.5	22.1	0.6
USSR	13.0	12.0	-1.0
West Europe	6.3	6.1	-0.2
Eastern Europe	5.9	4.7	-1.2
Others	37.1	39.9	2.8
Total	83.8	84.8	1.0

1986/87 forecast.

October/September years.





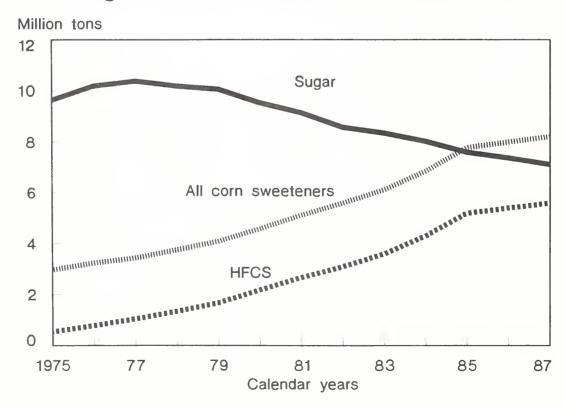
^{*}Honey and edible syrups.



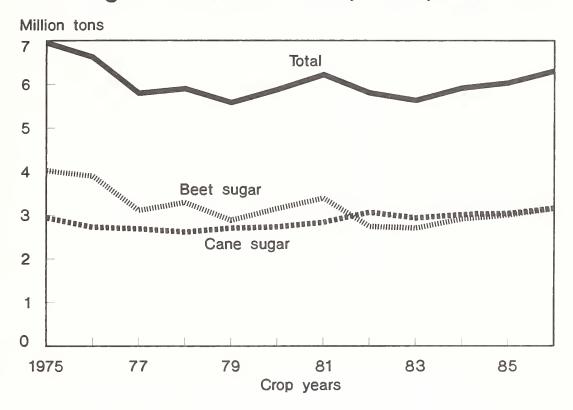
1987 Outlook for Sugar and Sweeteners

Robert D. Barry

U.S. Sugar and Corn Sweetener Deliveries



U.S. Sugar Production: Beet, Cane, and Total



Estimated Quantity of Sugar in Selected Food Imports

	1981	1985
		1,000 tons
Sweetened chocolate	7.8	27 .5
Sweetened cocoa and confectionery coating	Js 0.6	4.4
Candy and confectioner	y 32.0	77.3
Pastries, cakes, and pur	ddings 13.2	32.0
Edible preparations, including gelatine	10.5	41.0
Miscellaneous foods	11.9	_28.7
Tot	al 76.0	211.0

U.S. Average Retail Price for Sugar

Fiscal year	Cents a pound
1981	45.3
1982	33.7
1983	35.8
1984	36.4
1985	35.7
1986	35.4

Returns to Management and Risk

	1984 crop	1985 crop
	Dollars	an acre
Barley	-30	-44
Corn	-21	-22
Cotton	-39	-39
Soybeans	-12	-7
Sugarbeets	105	100
Sugarcane	-101	-79
Wheat	-20	-29

Sugar and Corn Sweetener Deliveries

	Peak year	1975	1980	1985	1987
			Million tons	3	
Sugar	10.4 (1977)	9.6	9.5	7.6	7.1
HFCS	5.6 (1987)	0.5	2.2	5. 2	5.6
All corn sweeteners	8.2 (1987)	3.0	4.6	7.8	8.2

U.S. Cane Sugar Refining Capacity

	1981	1986
Refining capacity in million tons/year, raw value	7.1	5.6
Number of refineries	20	14

U.S. Imports of Raw Sugar

Fiscal year	1,000 tons, raw value		
1980	4,717		
1981	4,881		
1982	3,523		
1983	2,981		
1984	3,030		
1985	2,223		
1986	1,850		

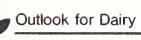
Note: Sugar quota started May 1982.

U.S. Prices for Raw Sugar (New York)

Fiscal yea	r High	Low	Average	MSP
1982	22.45 (Aug.)	15.66 (Oct.)	18.84	19.88
1983	22.59 (May)	20.44 (Oct.)	21.76	20.78
1984	22.06 (May)	21.47 (Dec.)	21.84	21.17
198 5	21.56 (Oct.)	19.51 (Sept.)	20.89	21.57
1986	21.01 (Feb.)	18.68 (Oct.)	20.38	21.50

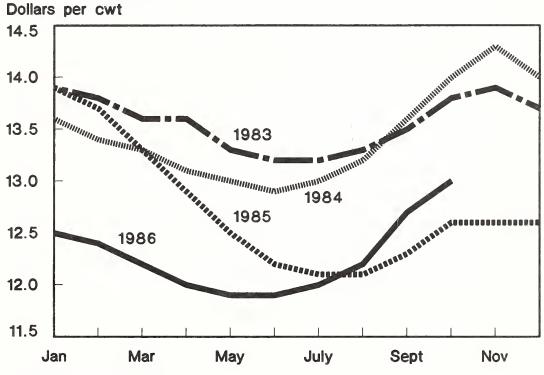
U.S. Sugar Production

	1975-81 average	1982-85 average
	1,000 tons	, raw value
Beet sugar	3,390	2,834
Cane sugar	2,745	3,008



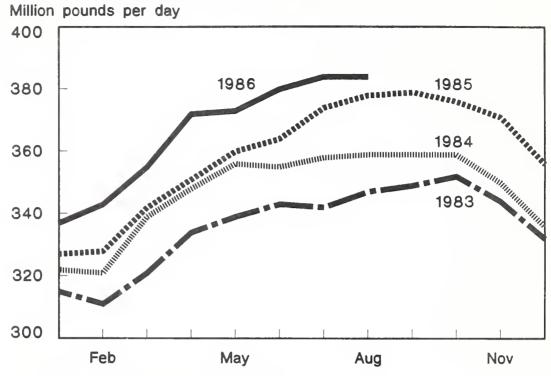
James J. Miller

All-Milk Price



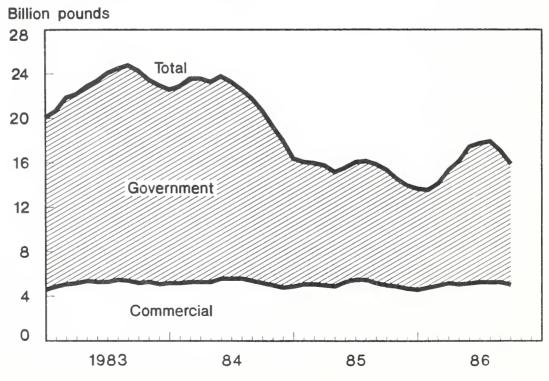
Delivered to plants and dealers.

Commercial Use of All Dairy Products*



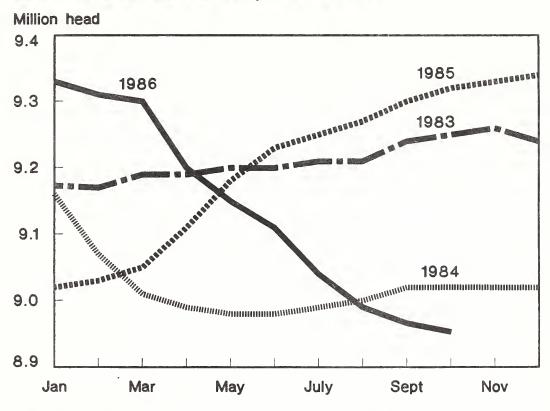
* Milkfat basis. Three-month moving average, centered.

Dairy Product Stocks*

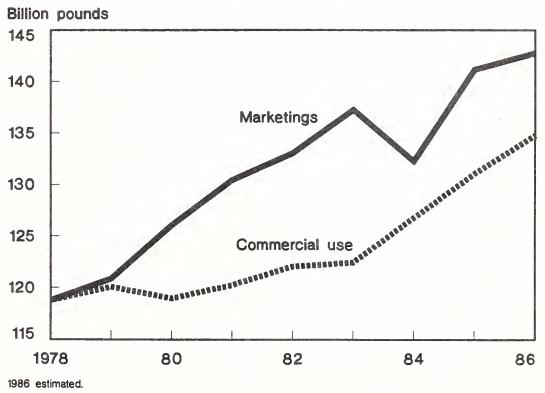


* First of month, milkfat basis.

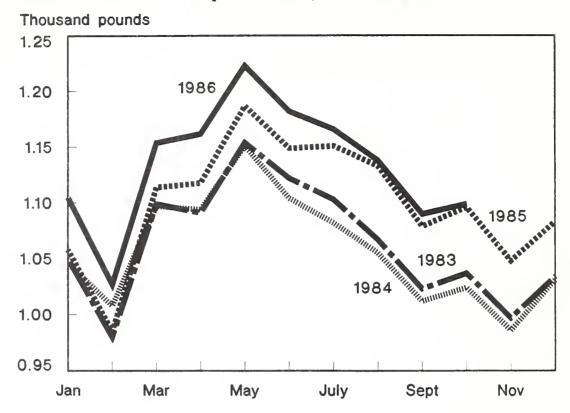
Milk Cows on Farms, 21 States



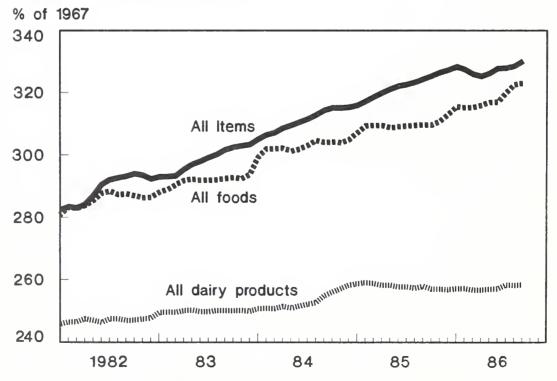
Milk Marketings and Commercial Use



Milk Production per Cow, 21 States

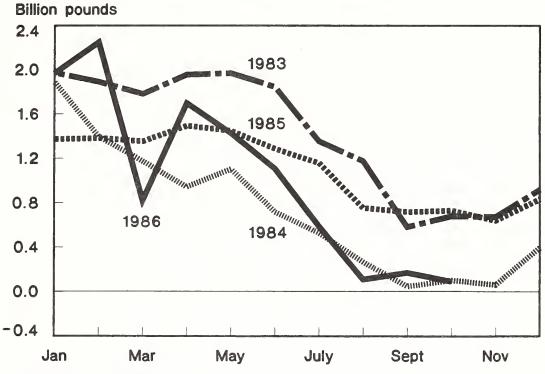


Retail Price Indexes



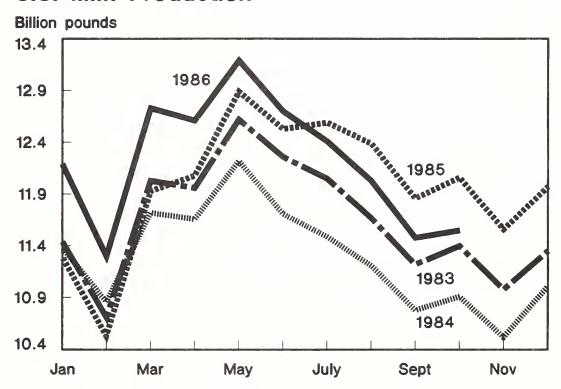
Consumer price index for all urban.

USDA Dairy Product Purchases*



* Net removals, milkfat basis.

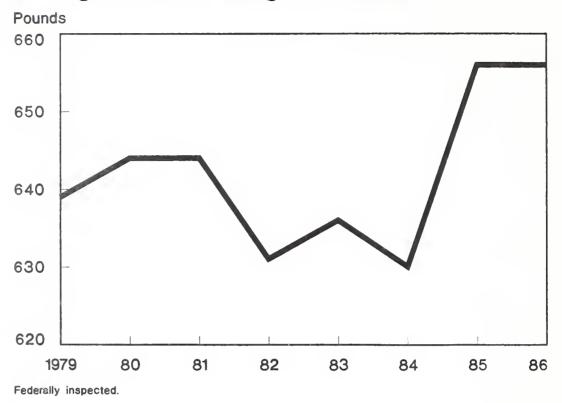
U.S. Milk Production*



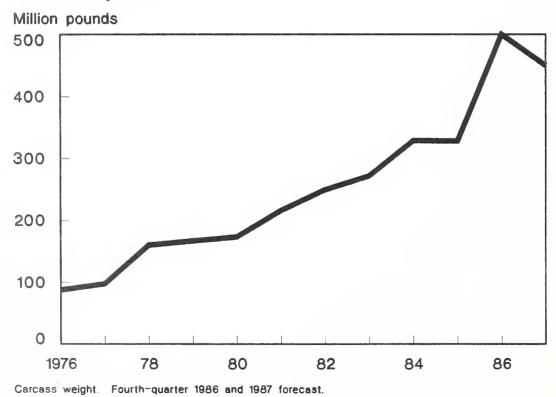
• Estimated from data for 21 States beginning April 1986.



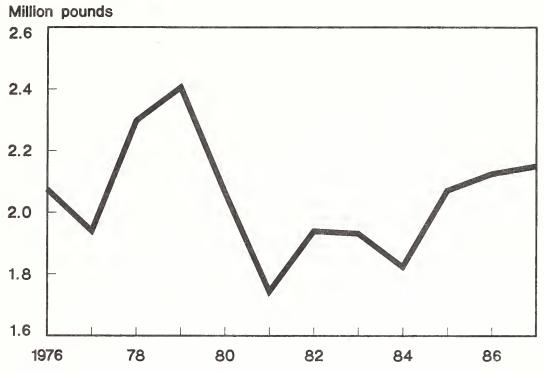
Average Dressed Weight of Cattle



Beef Exports

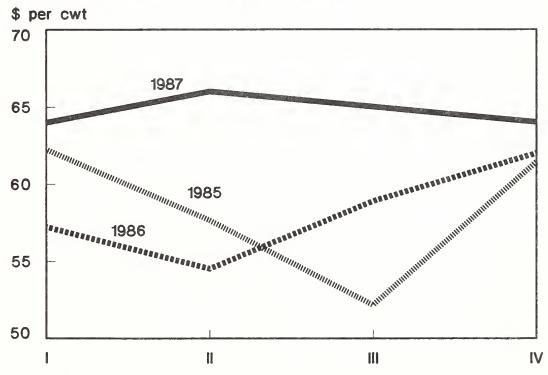


Beef Imports



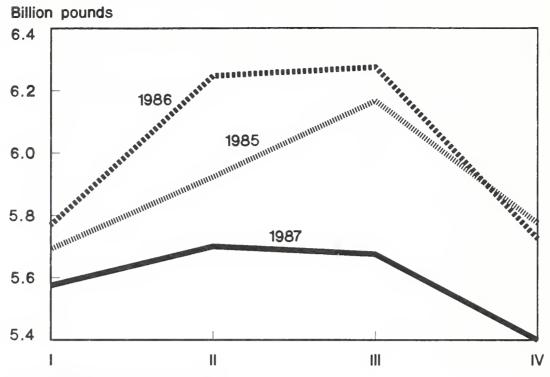
Carcass weight. Fourth-quarter 1986 and 1987 forecast.

Choice Steer Prices, Omaha



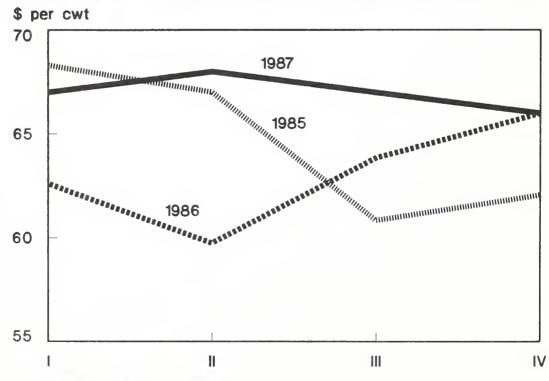
Fourth-quarter 1986 and 1987 forecast.

Commercial Beef Production



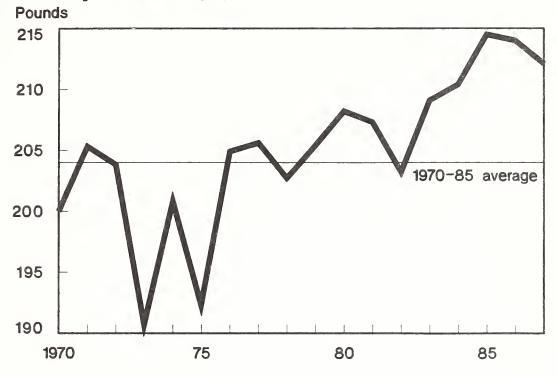
Fourth-quarter 1986 and 1987 forecast.

Medium #1 Feeder Steer Prices, Kansas City

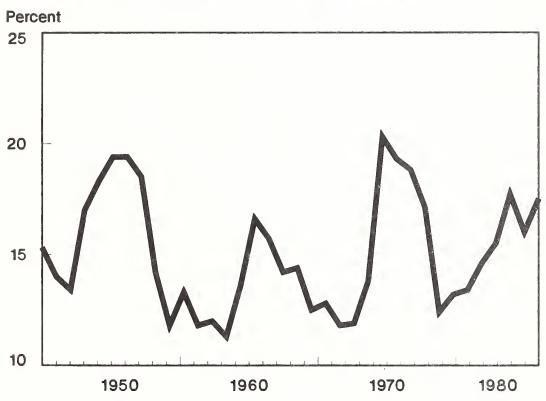


Fourth-quarter 1986 and 1987 forecast.

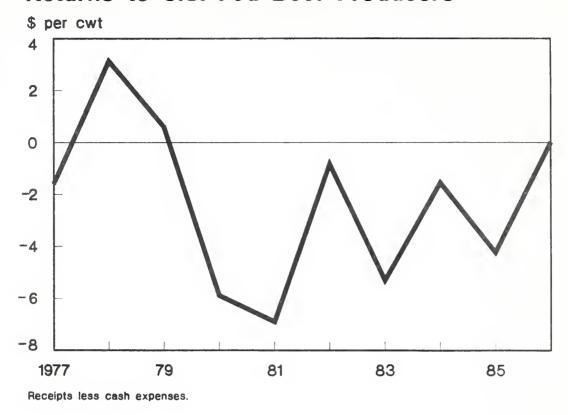
Per Capita Red Meat and Poultry Consumption



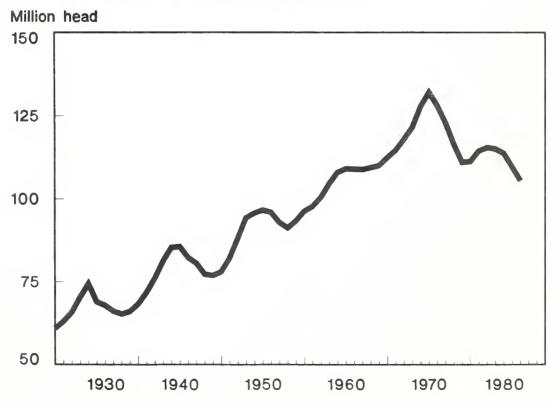
Percent of Cow Herd Slaughtered



Returns to U.S. Fed Beef Producers



U.S. Cattle and Calf Inventory



Beef Prices and Consumption

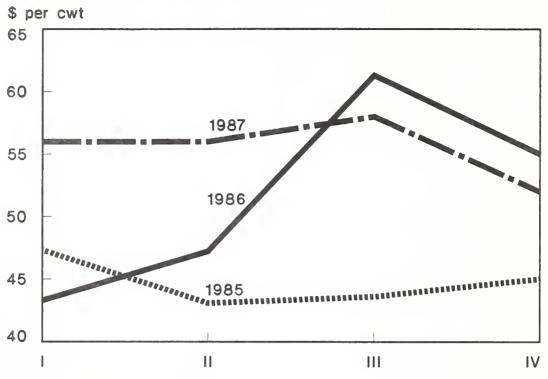
Year	Per capita consumption	ERS retail price			
	Pounds	Dollars per pound			
1979	78.0	2.26			
1980	76.5	2.38			
1981	77.2	2.39			
1982	77.1	2.42			
1983	78.7	2.38			
1984	78.6	2.40			
1985	79.1	2.33			
1986	79.2	2.32			
1987	74.1	2.42			
% change	-6	+4			

Feeder Cattle Supply

	1983	1 9 84	1985 D head	1986	1986/85 % change
Calves less than 500 lb.:					
On farms July 1	35,970	35,500	33,600	32,200	-4.2
Slaughter July-Sept.	805	856	872	859	-1.5
On feed Oct. 1	367	495	289	310	7.3
Subtotal	34,798	34,149	32,439	31,031	-4.4
Steers and heifers 500 lb. and over:					
On farms July 1	24,730	24,450	24,200	23,300	-3.7
Slaughter July-Sept.	7,421	7,174	7,465	7,521	2.5
On feed Oct. 1	9,334	9,999	8,964	9,314	3.9
Subtotal	7,775	7.277	7,771	6,465	-16.8
Total supply	42,573	41,426	40,210	37,496	-6.8

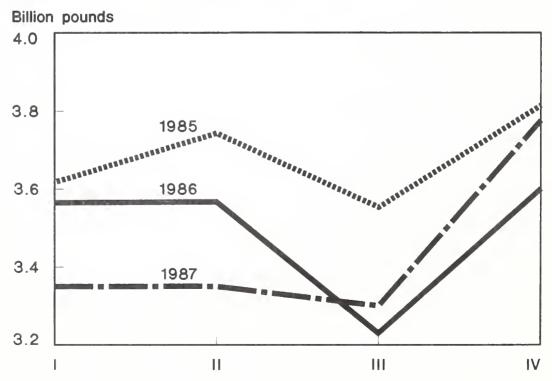


Barrow and Gilt Prices, Seven Markets



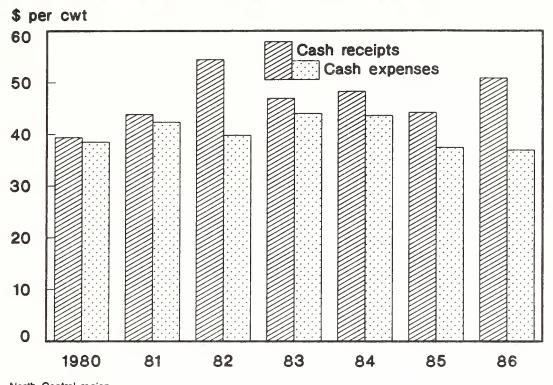
Fourth-quarter 1986 and 1987 estimated.

Commercial Pork Production



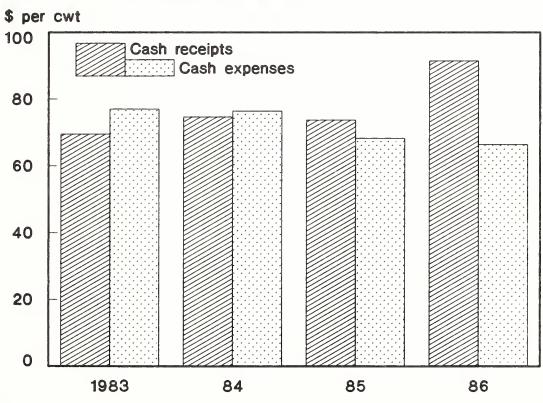
Fourth-quarter 1986 and 1987 estimated.

Farrow to Finish Costs of Production

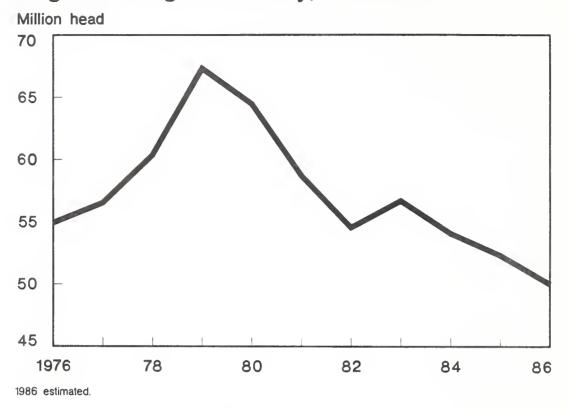


North Central region.

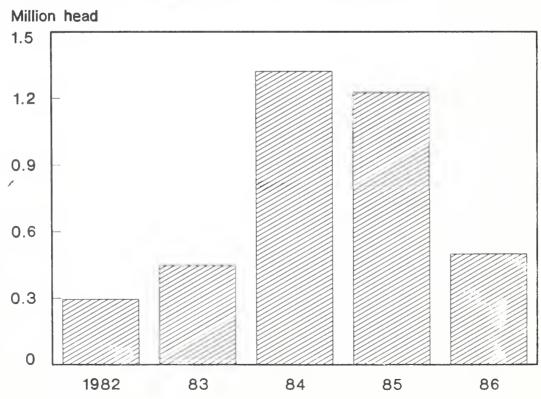
Feeder Pig Production Costs



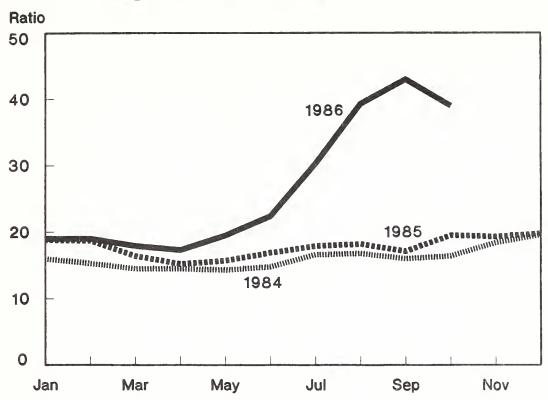
Hogs and Pigs Inventory, December 1



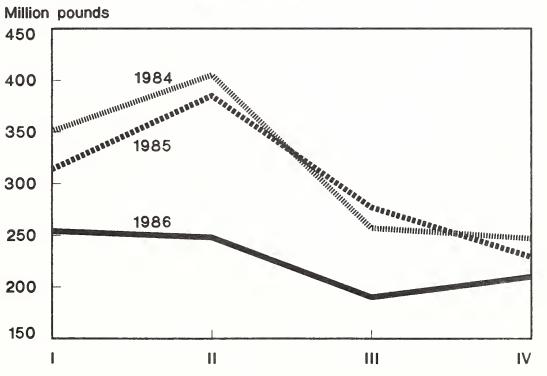
Live Hogs Imported from Canada



Omaha Hog/Corn Price Ratio

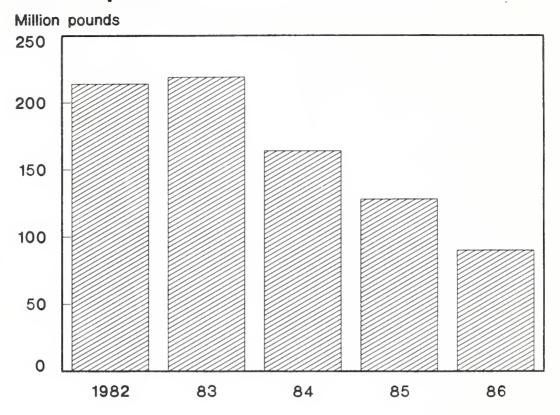


Pork Cold Storage Stocks

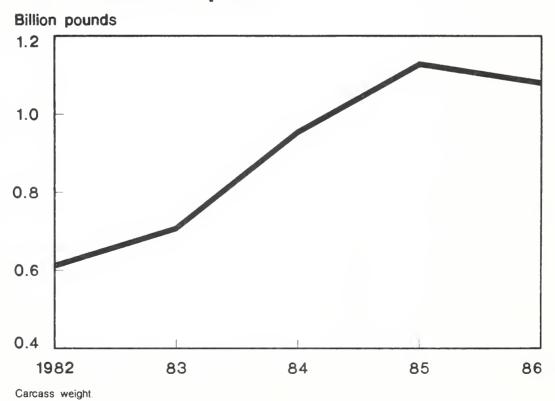


End of quarter. Fourth-quarter 1986 estimated.

Pork Exports

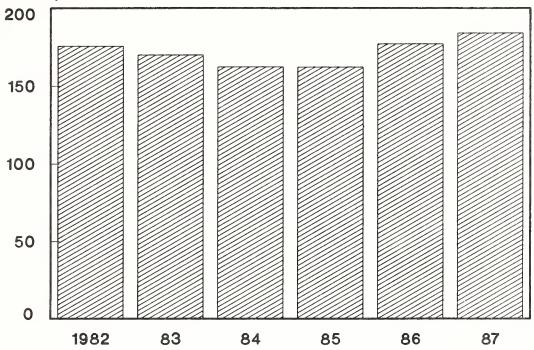


Pork Product Imports



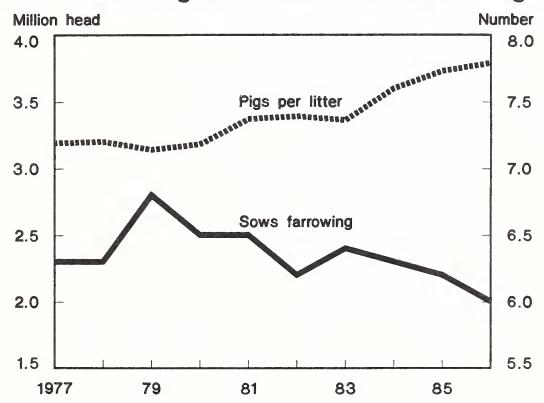
Retail Pork Prices



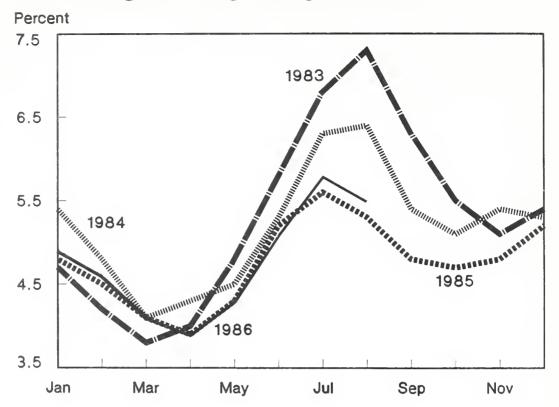


1986 and 1987 estimated.

Sows Farrowing and Litter Rates (June-Aug.)



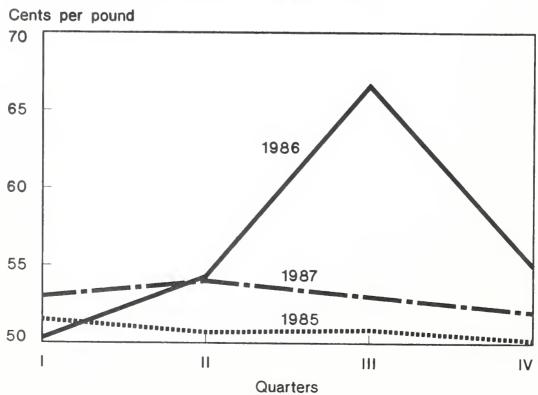
Sow Slaughter/Hog Slaughter Ratio



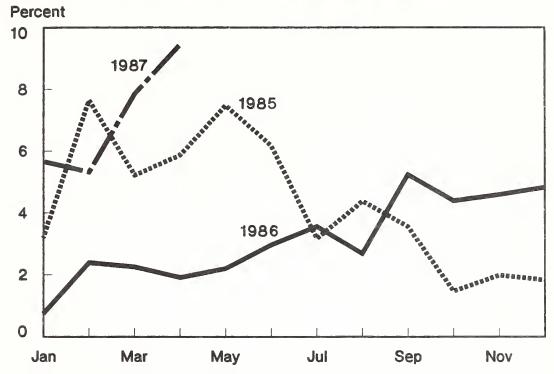


Allen J. Baker

12-City Composite Broiler Price

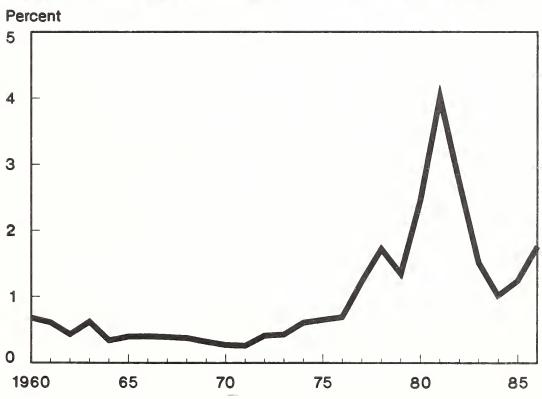


Broiler Placements, 7-14 Months Earlier

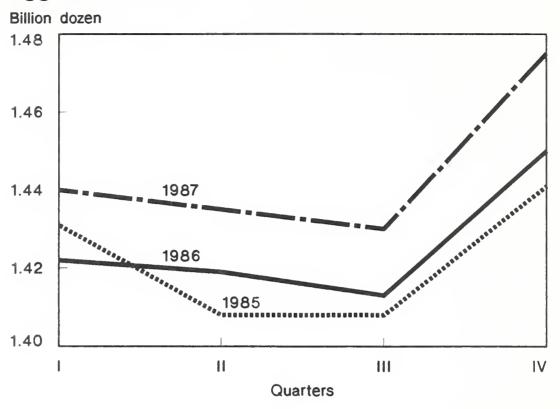


For hatchery supply flock. Percent change from year earlier.

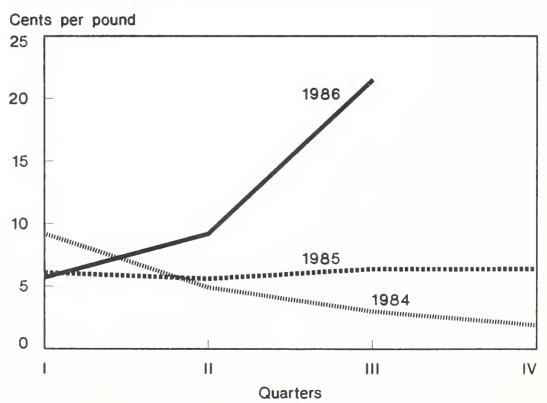
Egg Exports as Percent of Total Production



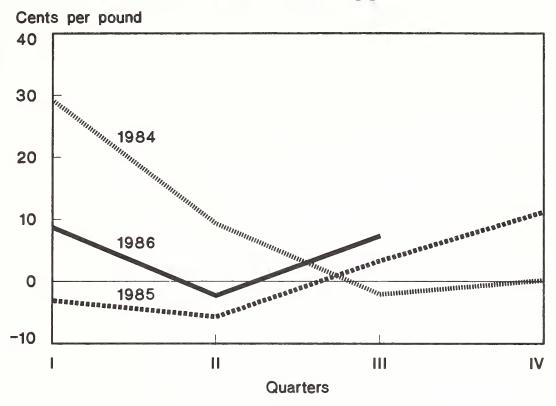
Egg Production



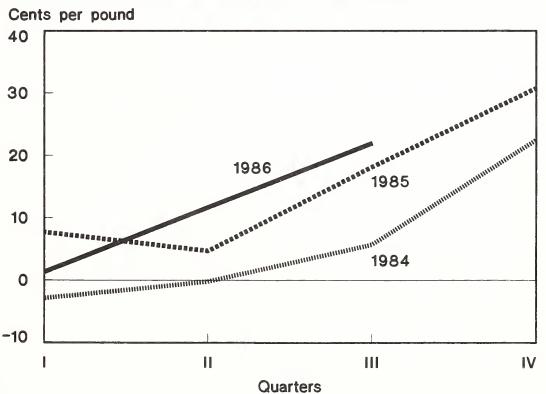
Estimated Net Returns for Broilers



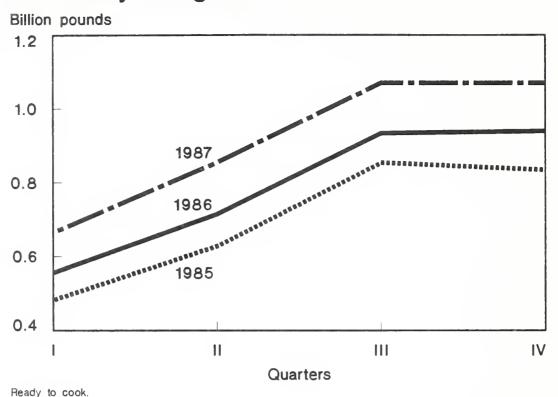
Estimated Net Returns for Eggs



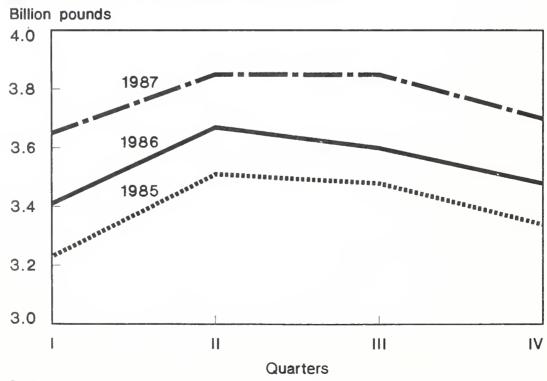
Estimated Net Returns for Turkeys



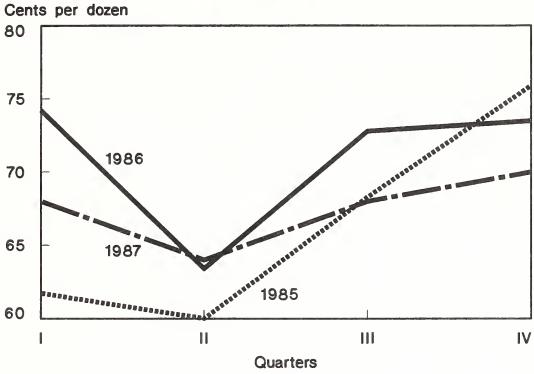
F.I. Turkey Slaughter



F.I. Young Chicken Slaughter

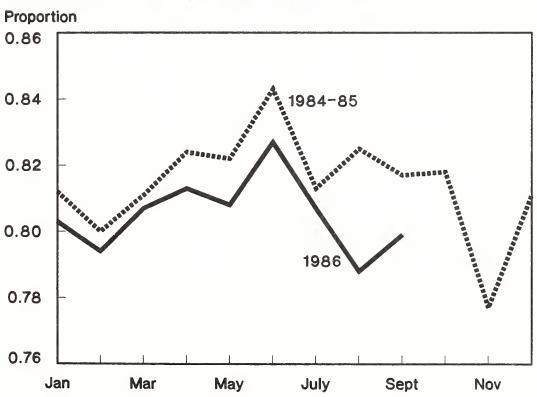


Grade A Large Egg Prices

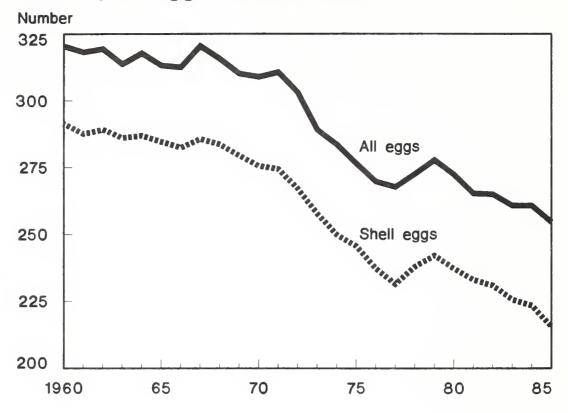


Cartoned, New York.

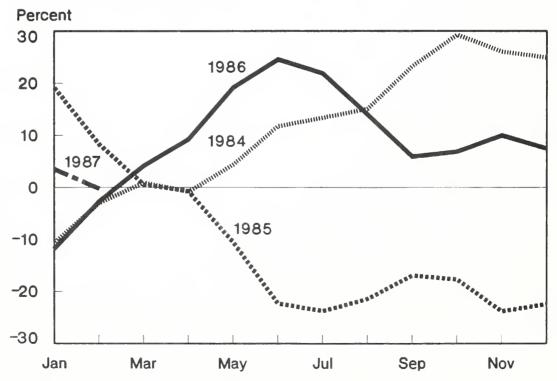
Hatchability of Broiler-Type Eggs



Per Capita Egg Disappearance

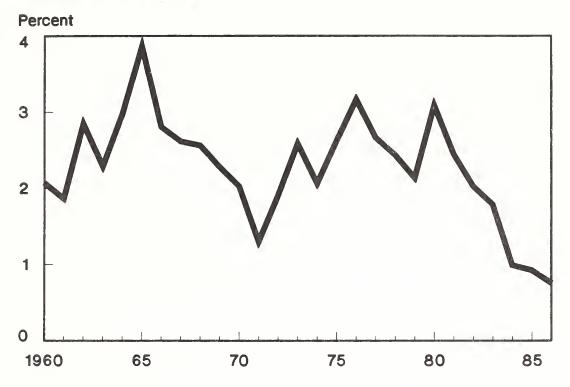


Pullets Entering Table - Egg Flocks

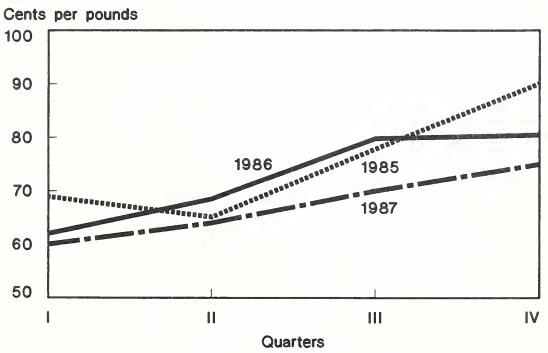


Percent change from year earlier.

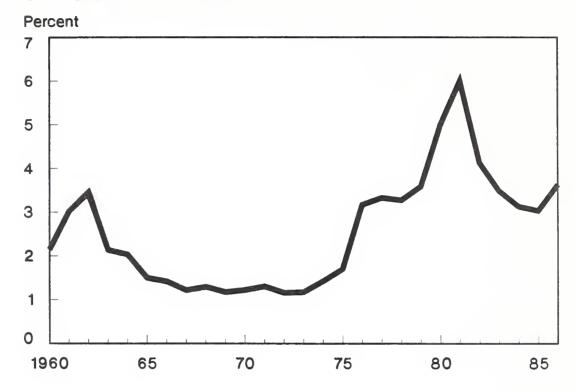
Turkey Exports As Percent of Total Production



Wholesale Prices for 8 to 16-Lb. Hen Turkeys



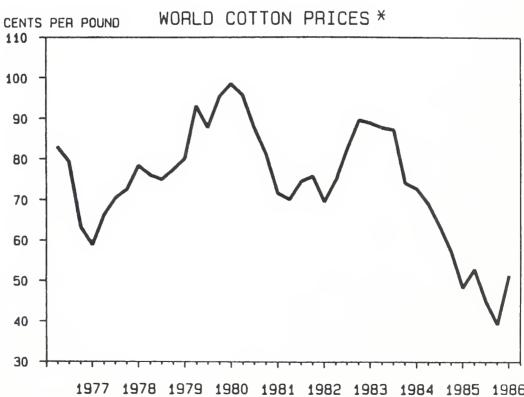
Young Chicken Exports As Percent of Total Production





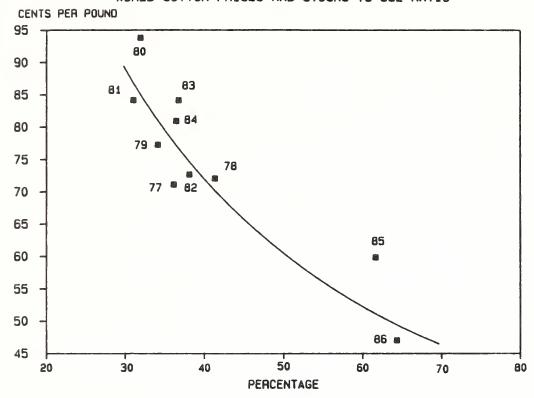
U.S. and World Cotton Outlook

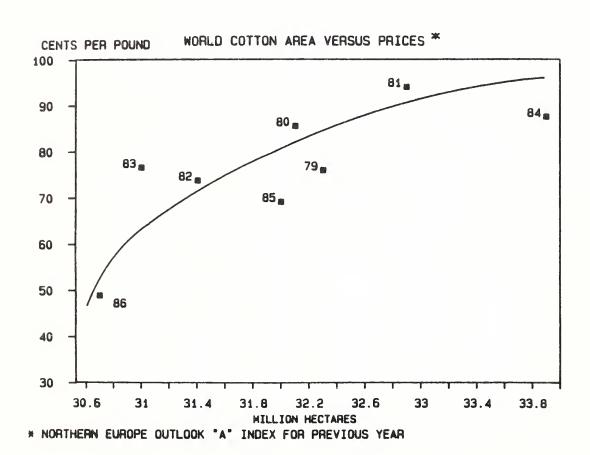
Russell G. Barlowe

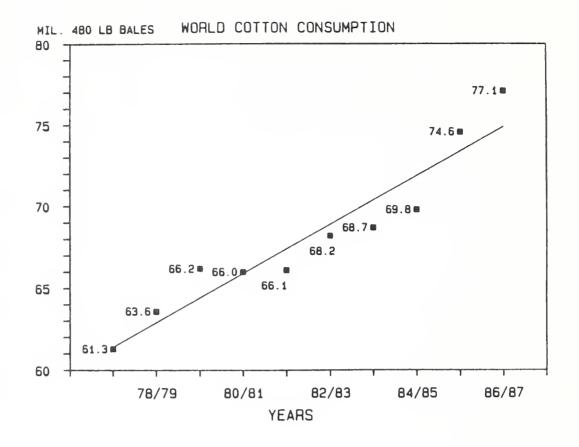


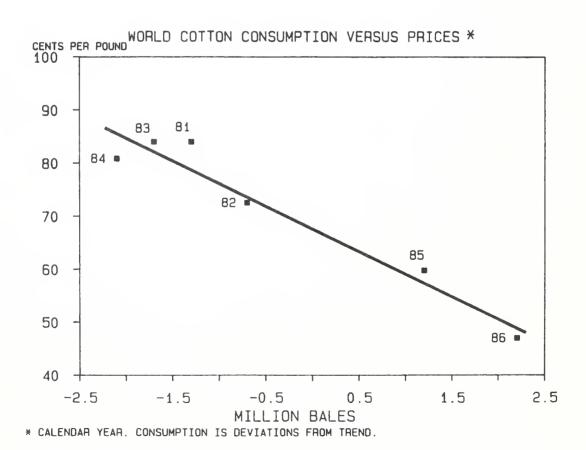
* NORTHERN EUROPE OUTLOOK "A" INDEX. FOURTH QUARTER 1986 BASED ON 7 WEEKS' DATA.

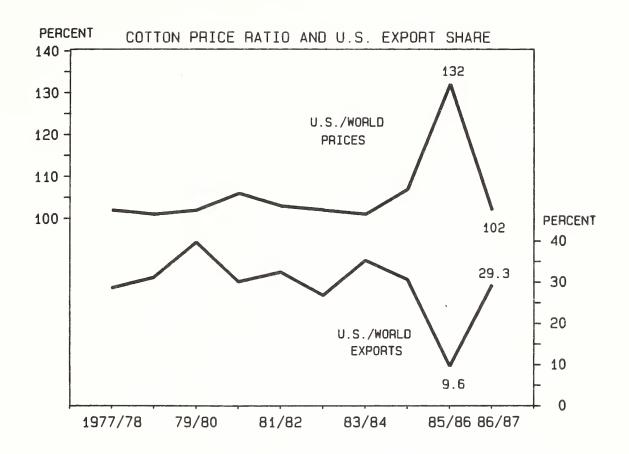
WORLD COTTON PRICES AND STOCKS TO USE RATIO

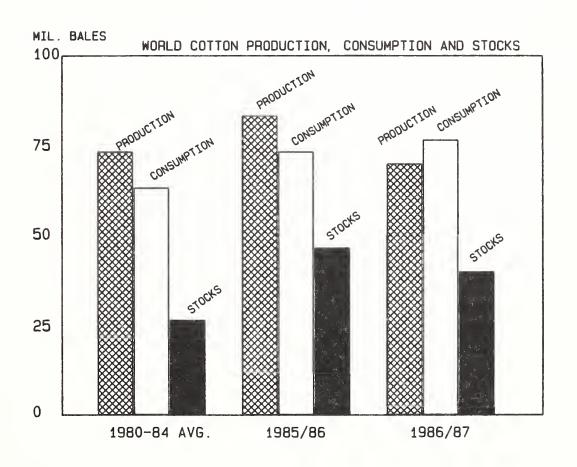




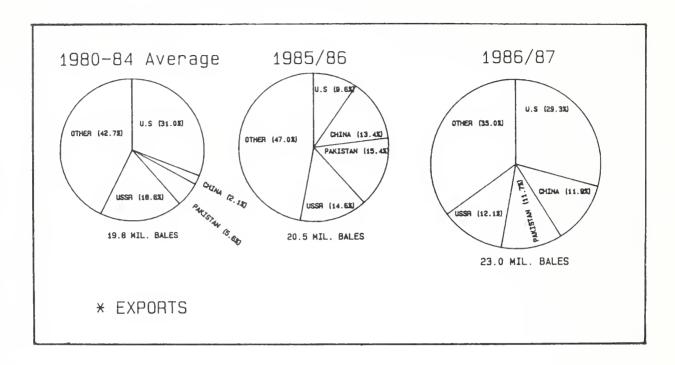




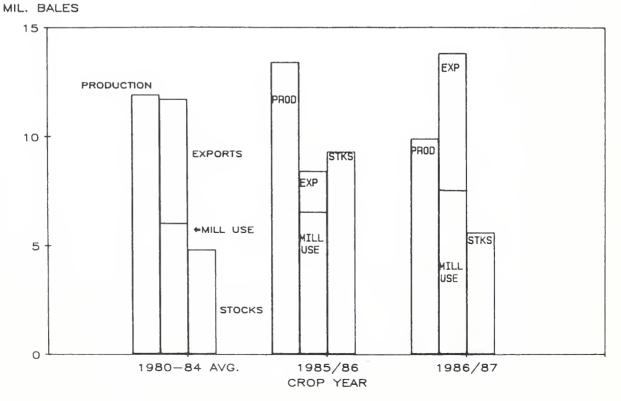




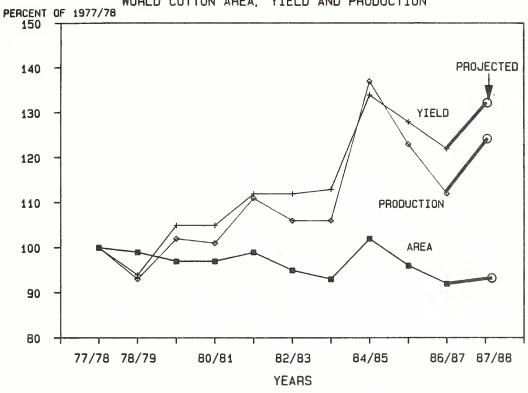
WORLD COTTON TRADE *

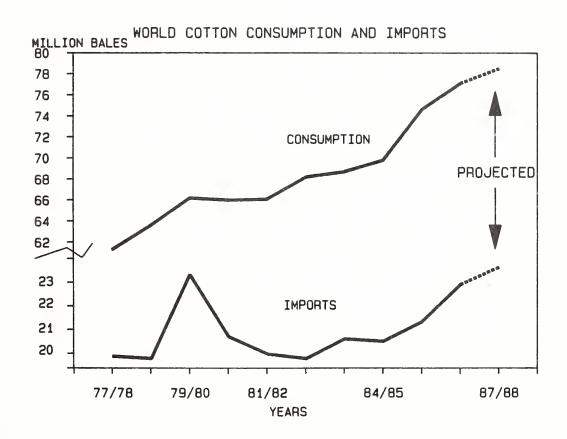


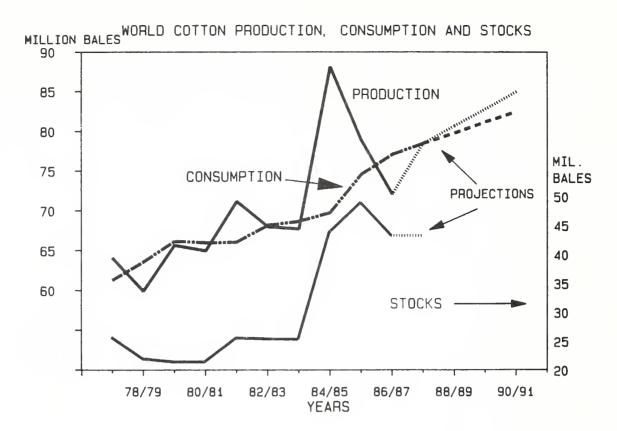
U.S. COTTON PRODUCTION, DISAPPEARANCE AND STOCKS



WORLD COTTON AREA, YIELD AND PRODUCTION





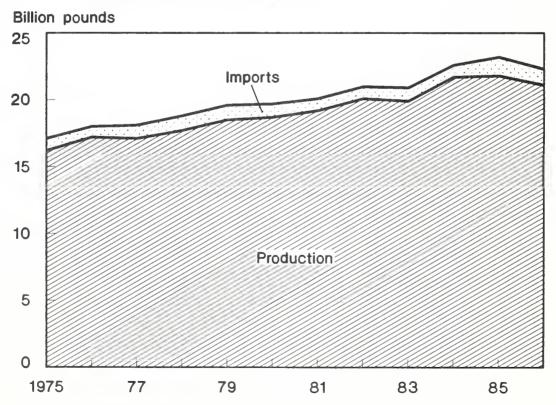




1987 Outlook for Vegetables

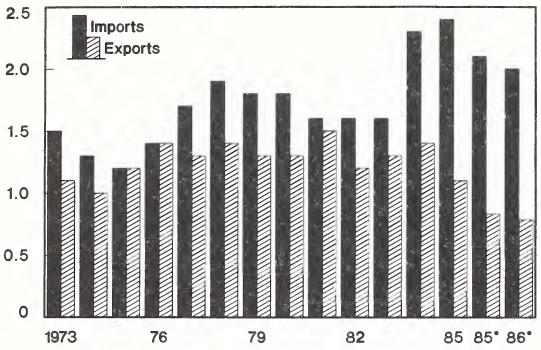
Shannon R. Hamm

Fresh Vegetable Supplies



Fresh Vegetable Trade

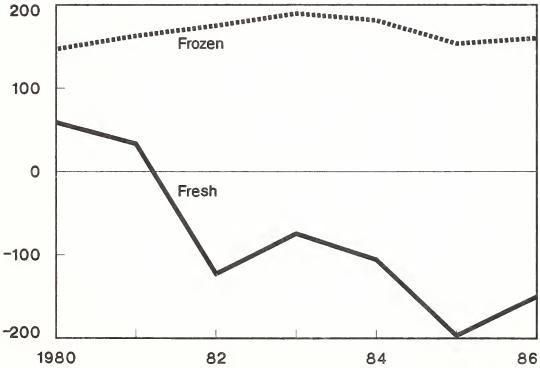




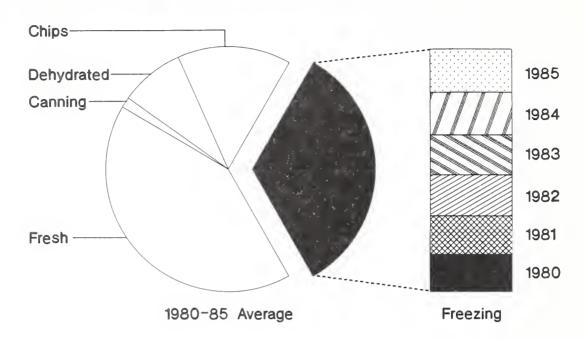
* Year to September.

Net Potato Trade

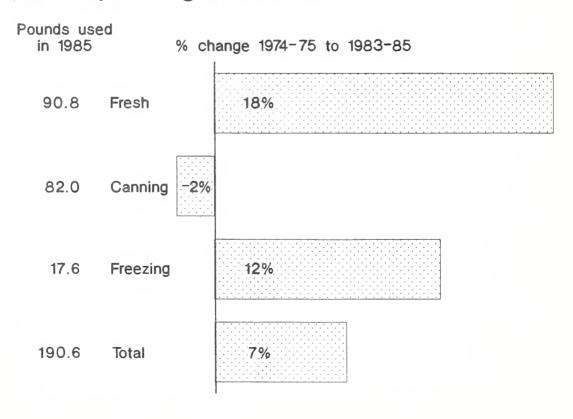




Per Capita Potato Use: Table Stock and Processing

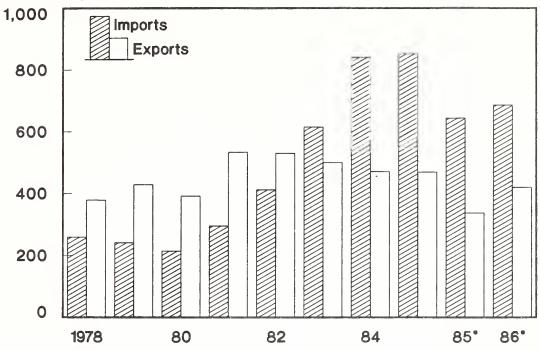


Per Capita Vegetable Use



Processed Vegetable Trade

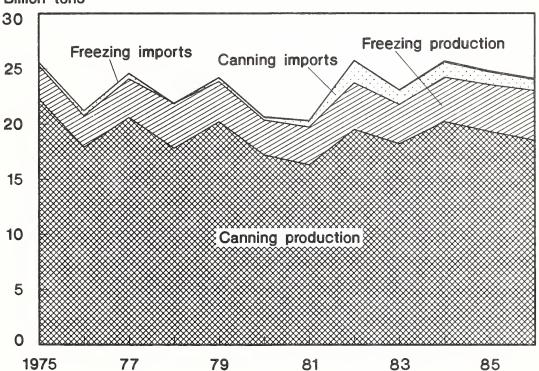
Thousand pounds



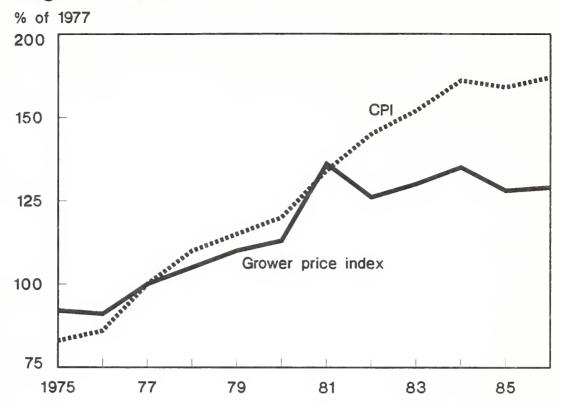
* Year to September.

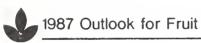
Processing Vegetable Supplies





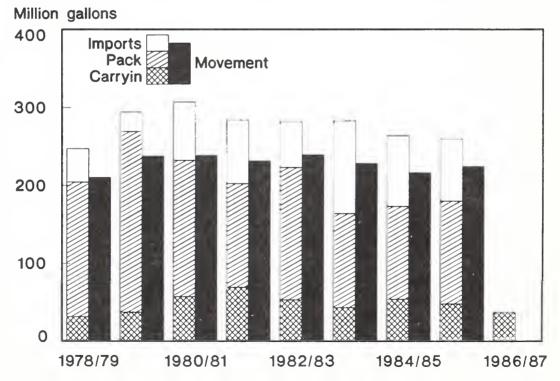
Vegetable Price Indexes





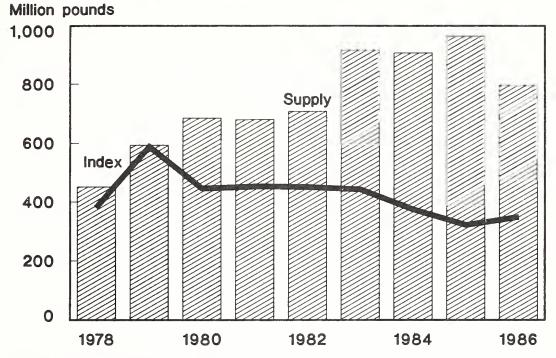
Ben W. Huang

Florida Supply and Movement of FCOJ



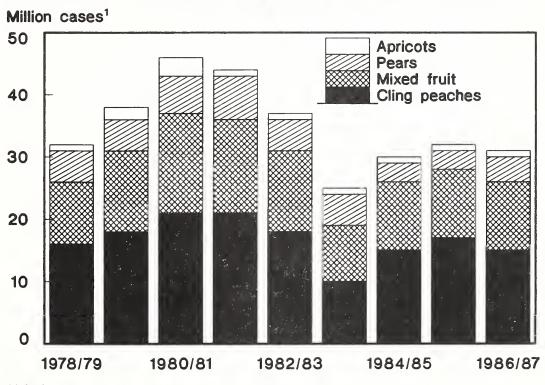
1985/86 imports and movement estimated. 1986/87 estimated.

Raisins: Domestic Supply and Producer Price Index



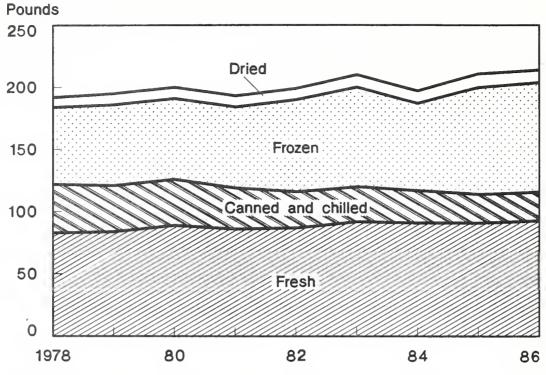
Index -- % of 1967. 1986 supply estimated. 1986 index is 9 - month average.

Stocks of Selected Canned Fruit, October 1



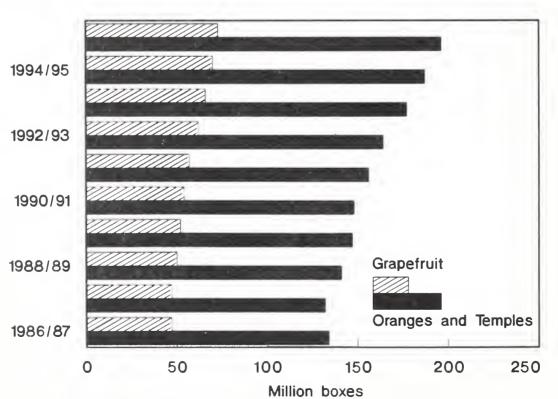
1/ 24 2-1/2's.

Per Capita Fruit Consumption



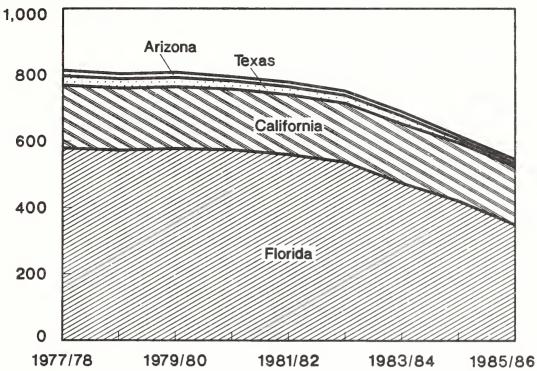
Fresh-weight equivalent. 1986 estimated. Canned and frozen includes fruit and juice.

Projected Florida Citrus Production



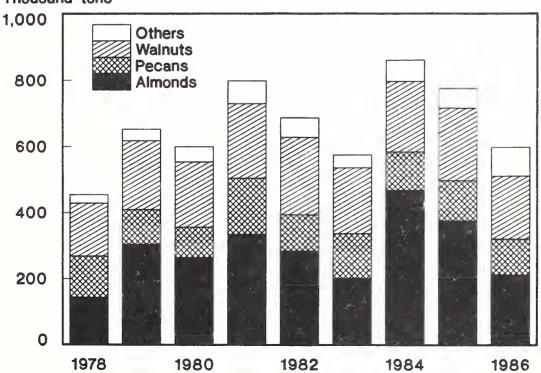
U.S. Orange Bearing Acreage





U.S. Tree Nut Production

Thousand tons



Consumer Price Index for Fresh Fruit

Quarters	1983	1984	1985 % of 1967	1986	1987 ¹
1st	274	295	356	352	353
2nd	301	321	377	375	378
3rd	324	355	370	386	385
4th	285	343	355	358 ¹	364
Annual	296	329	365	368	370

^{1/} Estimated.

Consumer Price Index for Processed Fruit

Quarters	1983	1984	1985 of Dec. 197	1986 7	1987 ¹
1st	151	156	167	166	163
2nd	150	162	169	163	164
3rd	151	164	168	162	163
4th	151	164	168	163 ¹	162
Annual	151	162	168	164	163

^{1/} Estimated.

Grower Prices for Fresh and Processing Fruit

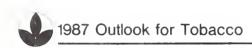
Quarters	1983	1984	198 5 % of 1977	1986	1987 ¹
1st	126	142	184	155	147
2nd	127	170	188	160	151
3rd	110	2 55	178	172	159
4th	151	239	183	161 ¹	148
Annual	128	202	183	162	151
1/ Estimated.					

U.S. Citrus Production

	1979	1985	1986	Chang 1979	e from 1985
		1,000 tons Percei			cent
Oranges	11,832	7,512	8,511	-28	13
Navels	6,658	4,170	4,787	-28	15
Valencias	5 ,174	3,342	3,724	-28	11
Grapefruit	2,986	2,188	2,399	-20	10
Lemons	789	697	939	19	35
Tangelos	288	133	180	-37	35
Tangerines	27 5	149	174	-37	17
Temples	270	133	162	-40	22
=					
Total	16,440	10,812	12,365	-25	14

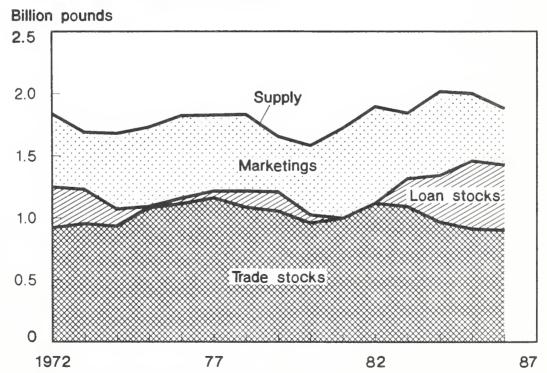
U.S. Production of Selected Noncitrus Fruit

	1984	1985	1986	Chang 1984	e from 1985
		1,000 tons		Pero	cent
Apples	4,166	3,975	3,869	-7	-3
Apricots	127	132	69	-46	-48
Cherries	318	276	2 55	-20	-8
Grapes	5,194	5,605	4,908	-6	-12
Nectarines	183	211	195	7	-8
Peaches	1,330	1,074	1,139	-14	6
Pears	710	747	711	-	-5
Prunes/Plums	721	641	462	-36	-28
Total	12,749	12,662	11,608	-9	-8



Verner N. Grise

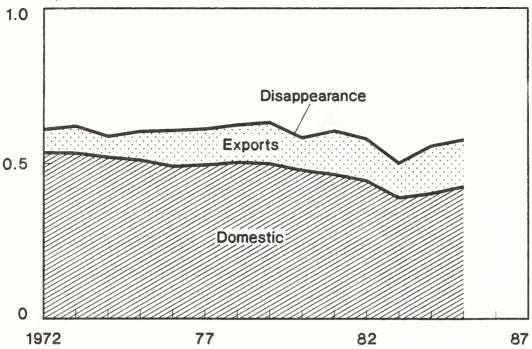
Burley Tobacco Supply



Trade stocks include manufacturers' and dealers'.

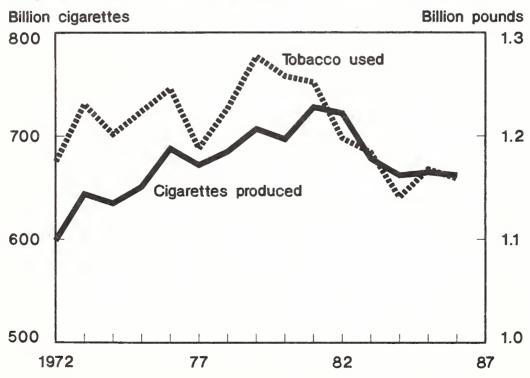
Burley Use





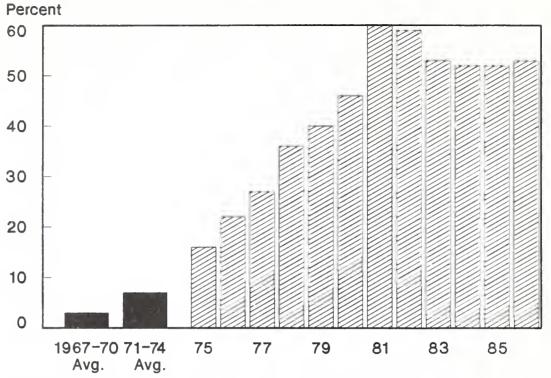
Crop year beginning October 1.

Cigarettes Produced and Tobacco Used



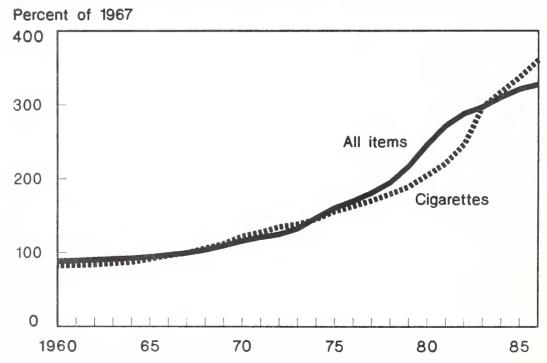
Billion pounds in unstemmed processing weight. 1986 forecast.

Cigarettes: Low-Tar Market Share*



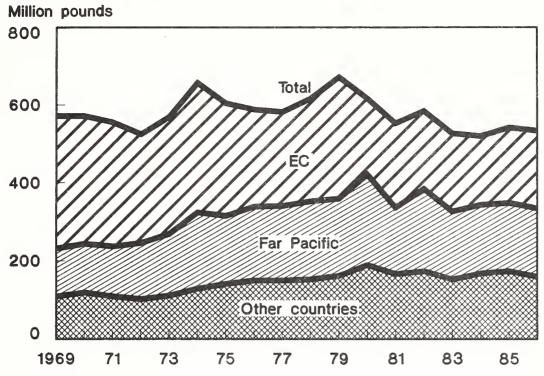
* 15 mg. 'tar' or less. Federal Trade Comission data. Latest year estimated.

Consumer Price Index and Cigarette Prices



BLS Data. Beginning 1978 for all urban consumers. Cigarettes, filter tip, king size for 1960-77. Latest year estimated.

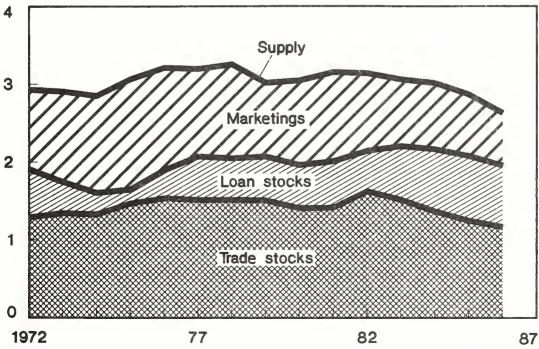
Export Markets for U.S. Tobacco



Unmanufactured, declared weight. Year ending June 30.

Flue-Cured Tobacco Supply

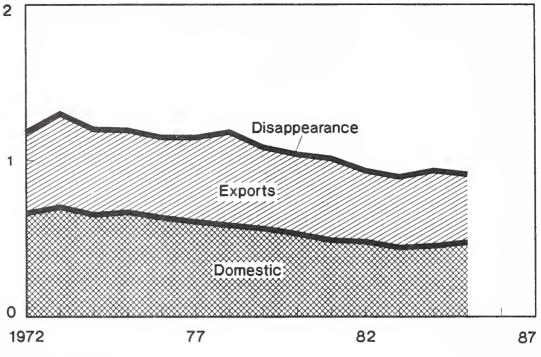




Trade stocks include manufacturers and dealers.

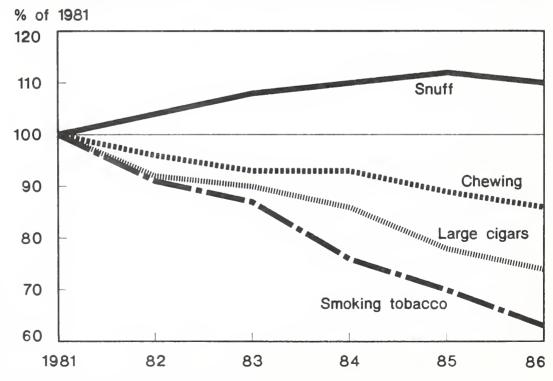
Flue-Cured Use

Billion pounds



Crop year begining July 1.

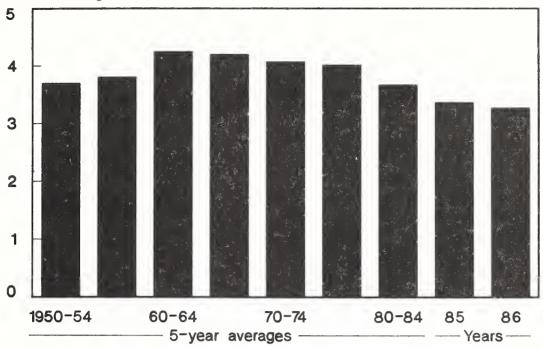
Per Capita Consumption of Tobacco Products



1986 preliminary. Per male 18 and over, except snuff per person 18 and over.

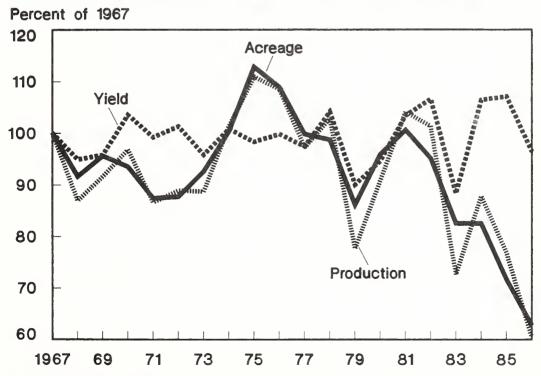
Per Capita Cigarette Consumption

Thousand cigarettes



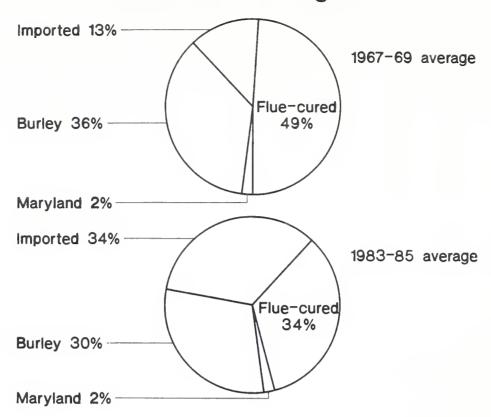
1986 projected. Persons 18 and over.

Tobacco Acreage, Yield, and Production

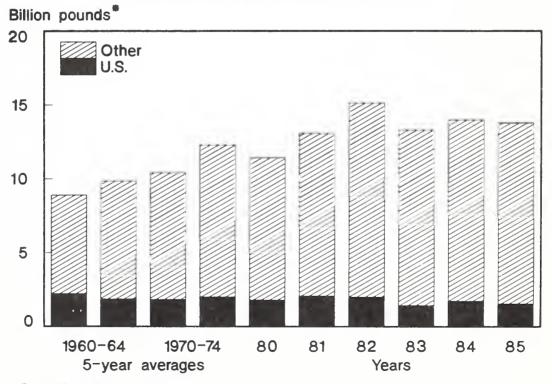


Latest year subject to revision.

Tobacco Use in Cigarettes



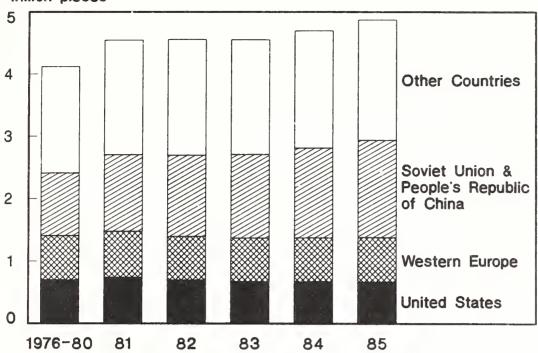
U.S. and World Tobacco Production



• Farm-sales weight. Latest year projected.

World Cigarette Output





Latest year preliminary.

1987 Outlook for Food Prices

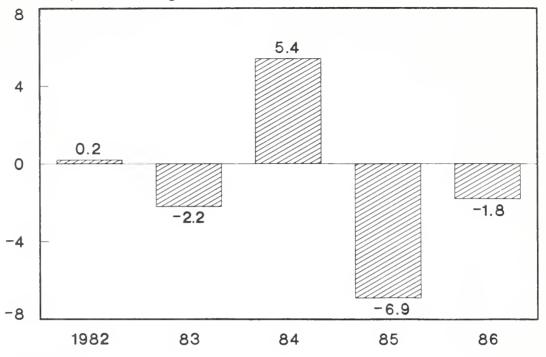
Ralph L. Parlett, Jr.

All Food CPI



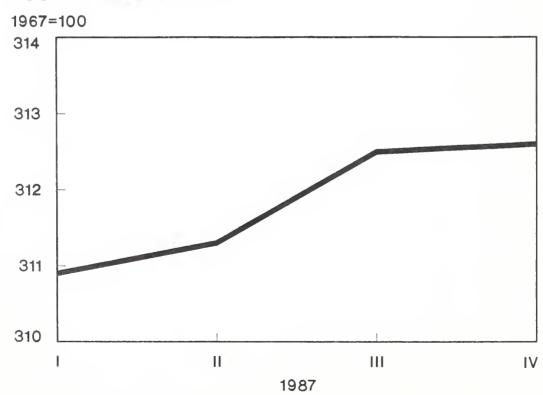
Farm Prices of Food Commodities

Annual percent change

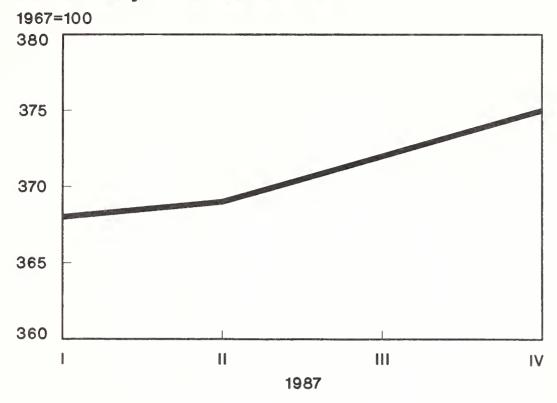


1986 forecast.

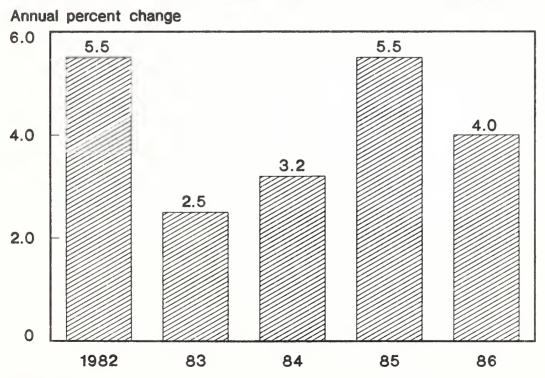
Food At Home CPI



Food Away From Home CPI

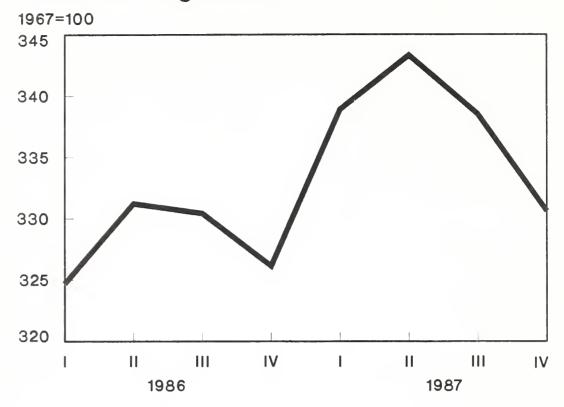


Food Processing and Distribution Charges

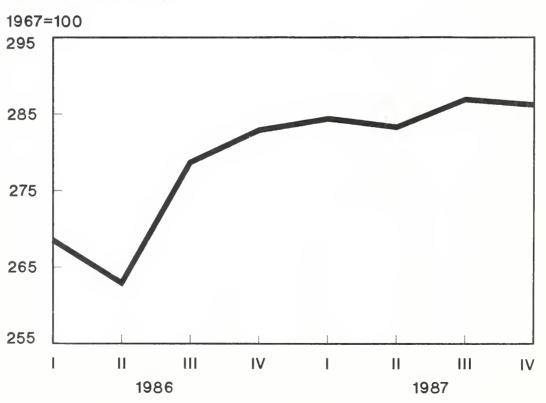


1986 forecast.

Fruits and Vegetables CPI

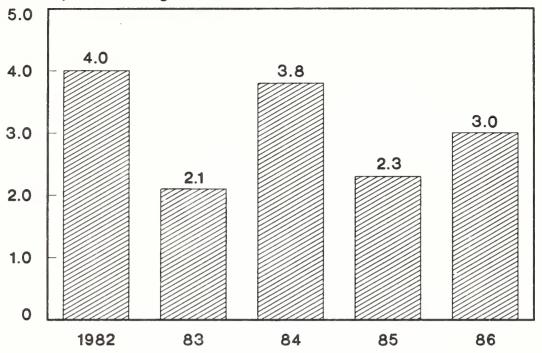


Red Meat CPI



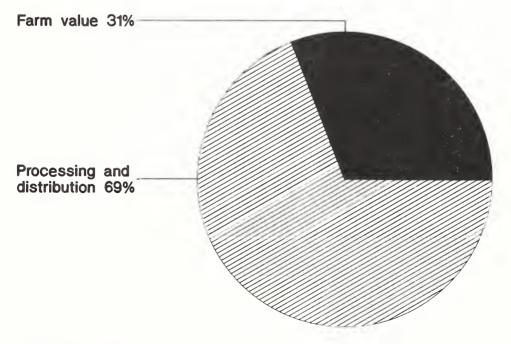
Retail Food Prices

Annual percent change



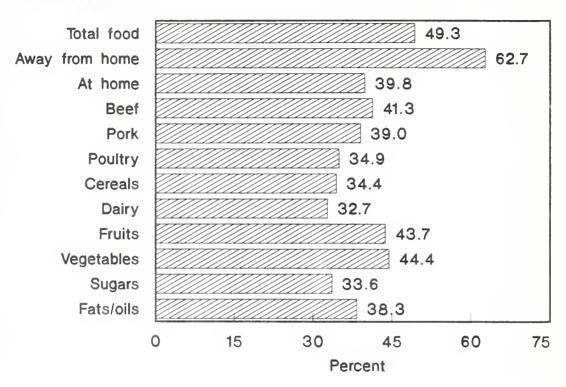
1986 forecast.

Shares of the Food Dollar

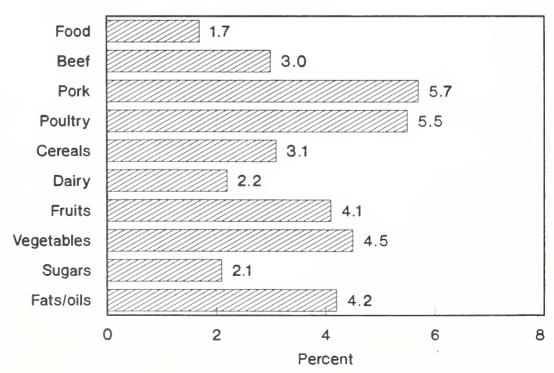


Average for all foods.

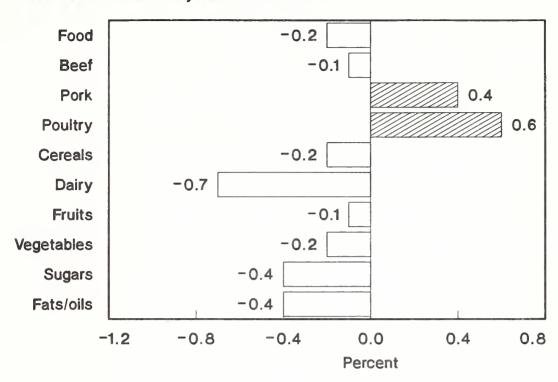
Change in National Food Expenditures, 1980-2005



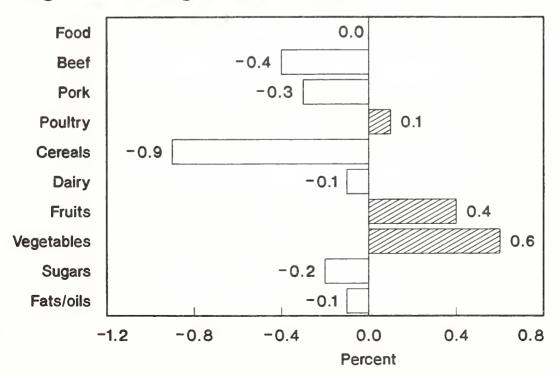
Food Expenditure Change Due to Age Distribution, 1980-2005



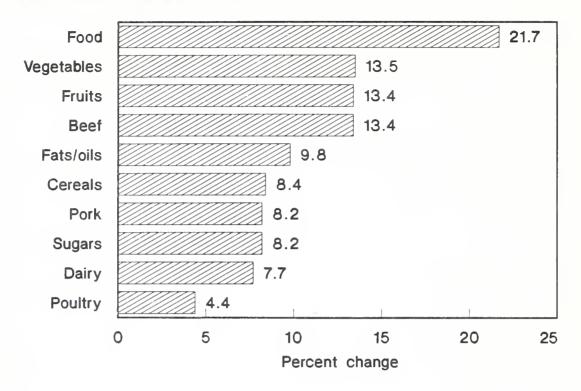
Food Expenditure Change Due to Racial Balance, 1980 - 2005



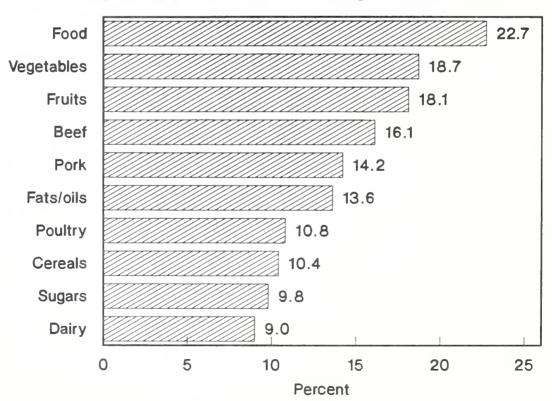
Food Expenditure Change Due to Regional Change, 1980 - 2005



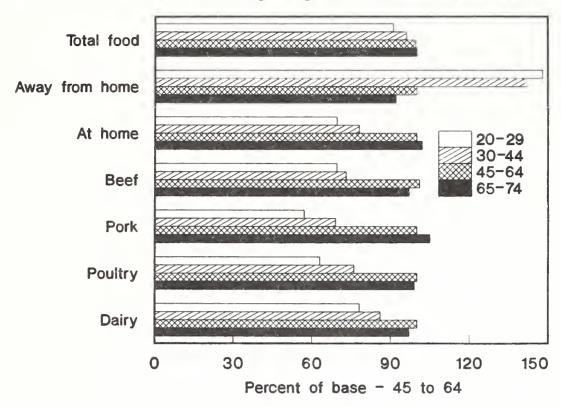
Food Expenditure Change Due to Income Growth, 1980 - 2005



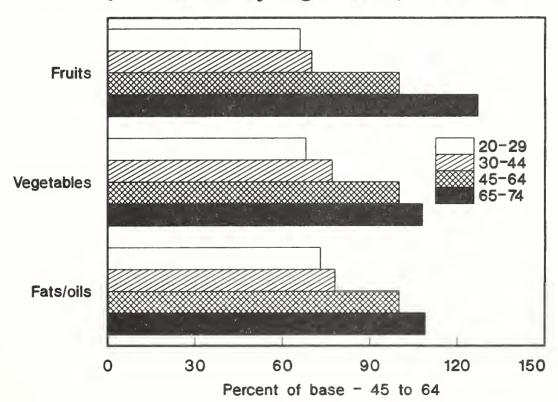
Food Expenditures: Net Change 1980 - 2005



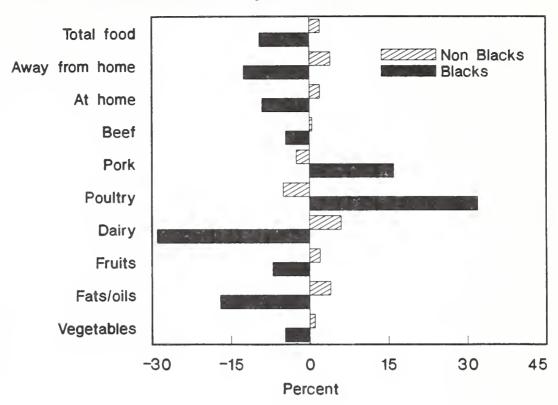
Food Expenditures by Age Group, 1980 - 81



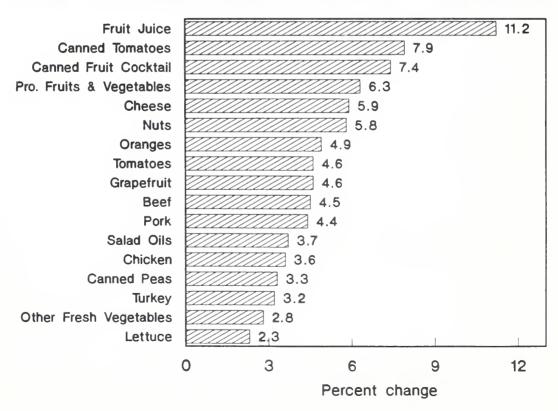
Food Expenditures by Age Group, 1980-81



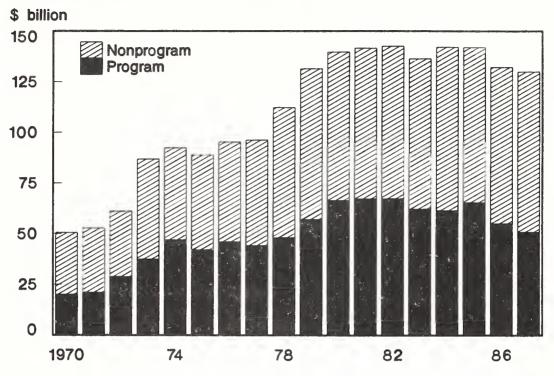
Food Expenditures by Race, 1980 - 81



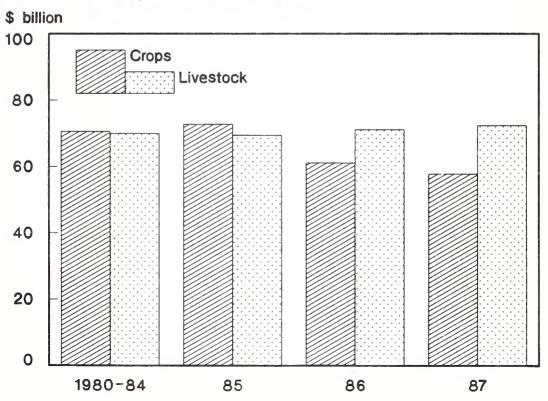
Food Purchases Which Increase with Income



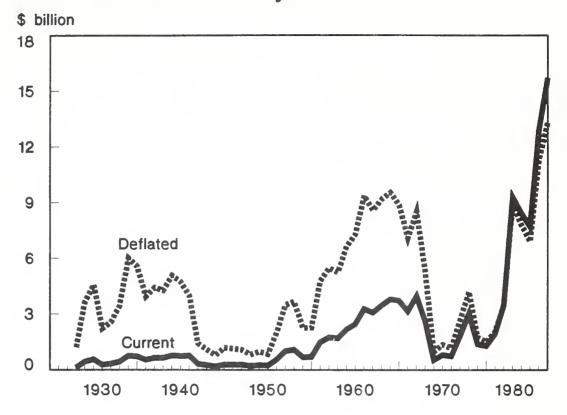
Cash Receipts for Program and Nonprogram Commodities



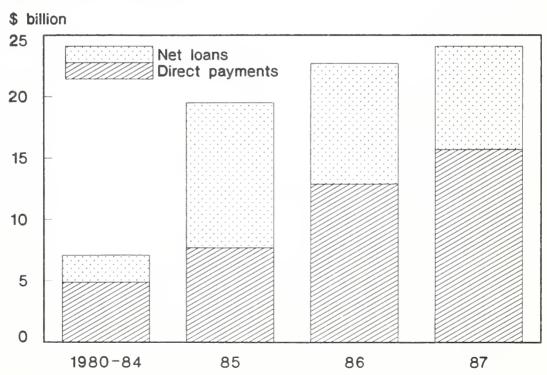
Cash Receipts in the 1980's



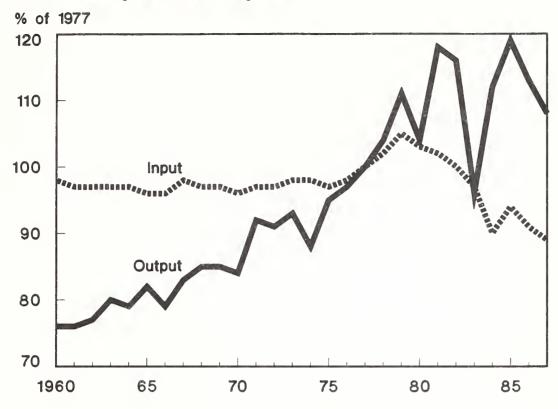
Direct Government Payments



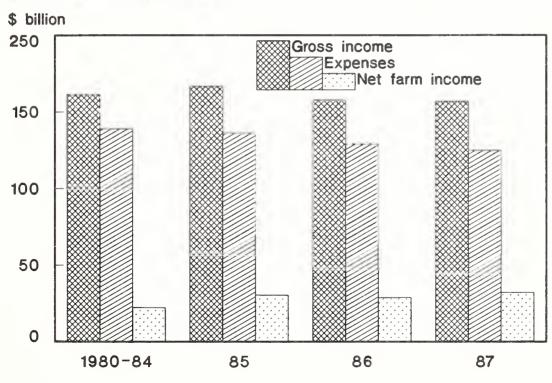
Direct Government Payments and Net CCC Loans



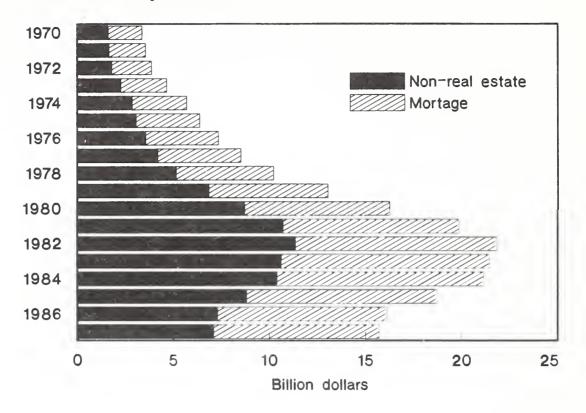
Farm Output and Input



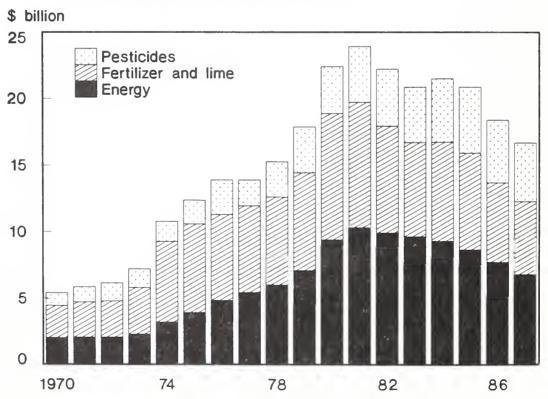
Gross Income, Expenses, and Net Farm Income



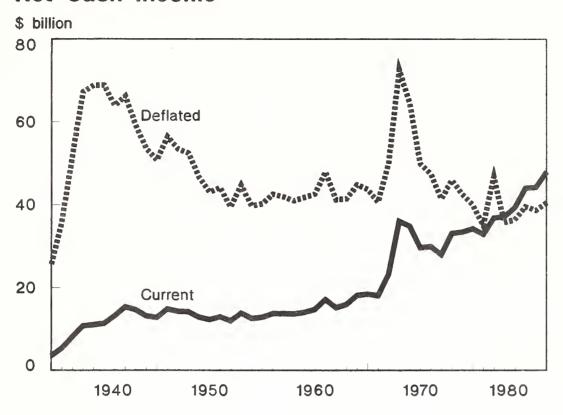
Interest Expenses



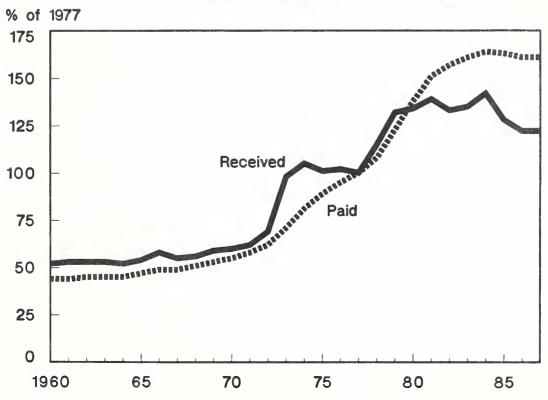
Manufactured Input Expenses



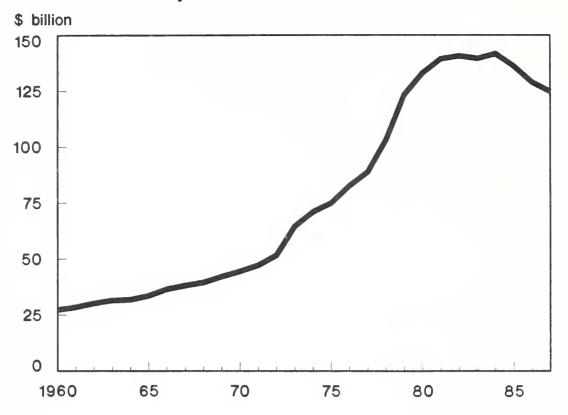
Net Cash Income



Prices Received and Paid by Farmers



Production Expenses

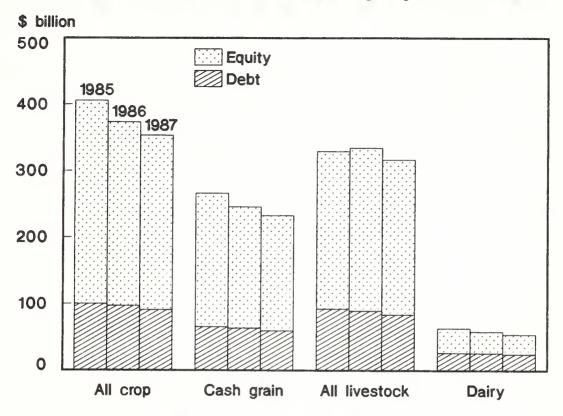


U.S. Farm Income

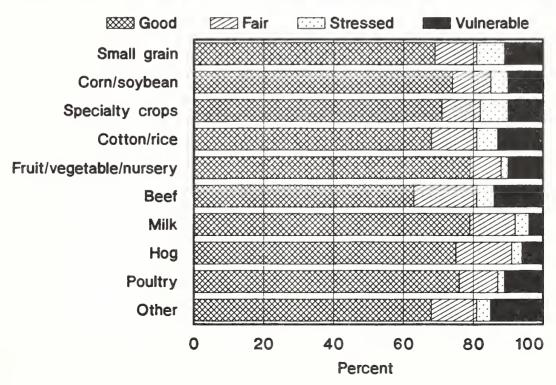
	1985 Bi	1986 ^F Ilion dollars	1987 ^F
Gross cash income	156.2	150	150
Cash expenses	112.1	106	103
Net cash income	44.0	44	48
Nonmoney income	10.0	7	6
Noncash and household expenses	24.0	23	22
Net farm income	30.5	28	32
(Deflated 1982 \$)	27.3	25	27

F = Forecast. Totals may not sum due to rounding.

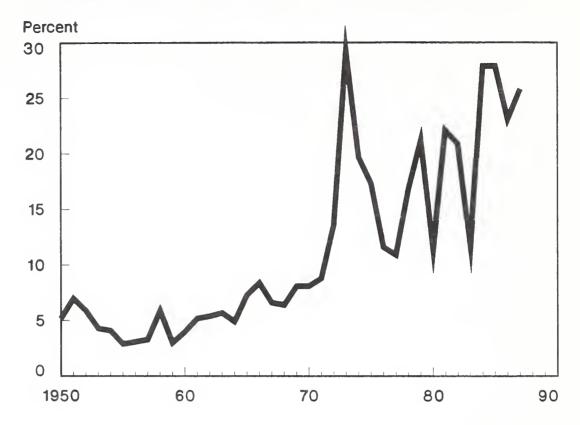
Balance Sheet Components by Type of Farm



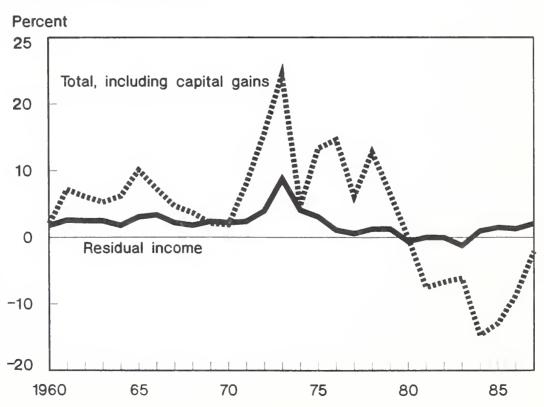
Commercial Farms by Type and Financial Condition, 1985



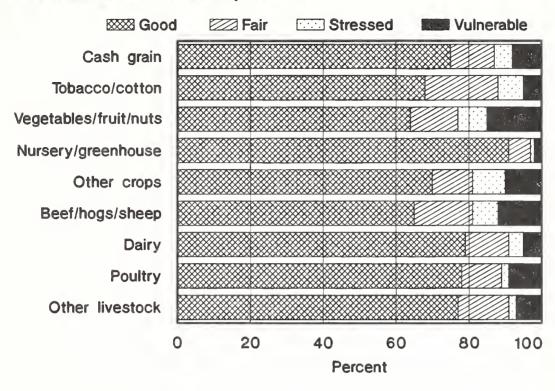
Rate of Return to Farm Production Assets



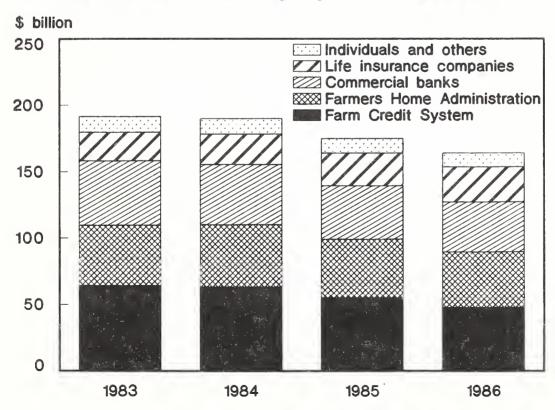
Return to Equity



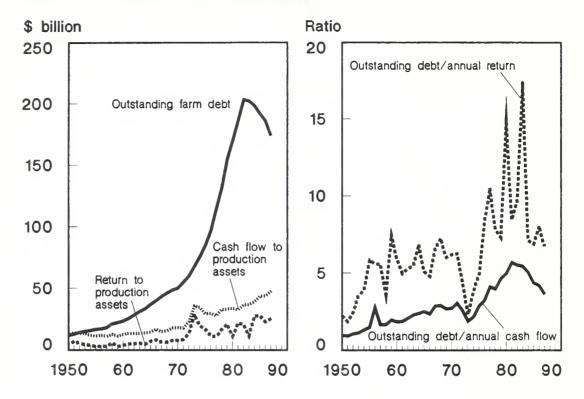
Farms Selling \$40,000+ by Type and Financial Condition, 1985



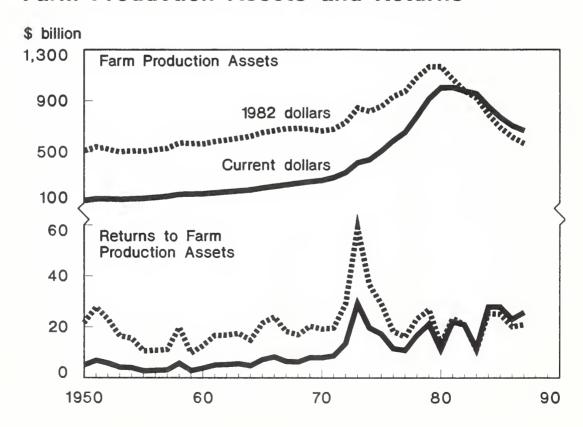
Non-CCC Farm Debt by Type of Lender



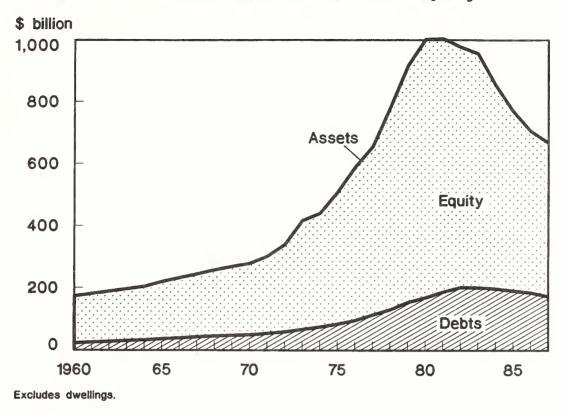
Farm Debt Compared with Income Flows to Farm Production Assets



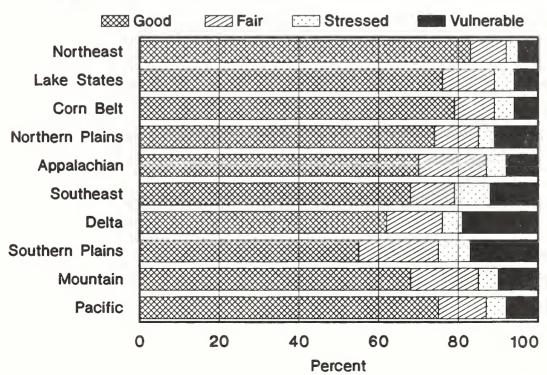
Farm Production Assets and Returns



Farm Sector Assets, Debts, and Equity



Farms Selling \$40,000+ by Region and Financial Condition, 1985



Distribution of Balance Sheet Components by Farm Type

	Crops			Livestock		
Income component	All	Grain	Cotton	All	Beef- Hogs	Dairy
Assets	43	27	4	57	37	14
Land and buildings	42	2 5	4	58	39	11
Livestock and poultry	13	9	2	87	49	30
Crops	68	55	2	32	18	12
Machinery and equipment	56	39	5	44	2 5	16
Liabilities	53	37	4	47	26	17
Equity	40	24	4	60	40	13

Distribution of Commercial Farm Operators by Financial Position¹

					D	ebt owed	to
Financial position and year Good	Operators	Assets	Debt	Banks Percent	Farm Credit System	Farmers Home Adm.	Other Lenders ²
	70	C.F.	E4	47	50	20	NIA
1984	70	65	51	47	53	39	NA
1985	74	66	57	57	58	46	58
Fair							
1984	13	18	16	15	15	18	NA
1985	13	21	18	16	17	22	20
Stressed							
1984	7	7	10	13	12	12	NA
1985	5	5	8	9	8	8	7
Vulnerable							
1984	10	10	23	25	20	31	NA
1985	9	8	18	19	17	24	16

^{1/} Classification scheme by Emil Melichar. 2/ Excludes debt owed to CCC. NA=Comparable data not available.

Distribution of Income Sources by Farm Type

	Crops			1	Livestock			
Income component	All	Grain	Cotton	All	Beef- Hogs	Dairy		
Crop sales	91	46	9	9	6	2		
Livestock sales	9	7	1	91	41	34		
Government payments	76	62	10	24	14	9		
Farm origin	18	12	1	82	47	20		
Manufactured inputs	68	45	7	32	18	11		
Labor and machine hire	62	18	7	38	16	16		
Interest	52	36	4	48	27	17		
Total expenses, excluding depreciation	48	30	5	52	29	16		
Total expenses	47	29	5	53	29	16		

Farm Income, Return, Assets, and Debts

	1970	1975	1980-84° \$ b	1985 illion	1986 ^F	1987 ^F
Gross farm income	55.8	95.4	149.1	156.1	150.4	151.0
Returns to operator	13.1	23.2	16.3	25.7	24.2	27.8
Returns to assets, labor, mgmt	18.4	33.6	42.0	51.1	45.8	48.9
Returns to assets	8.1	17.6	19.5	28.6	18.6	21.4
Returns to equity	4.9	11.2	-0.6	9.9	3.3	6.4
Equity in assets	221.6	366.3	788.1	657.3	579.3	525.2
% return to equity	2.2	3.1	-0.1	1.5	0.6	1.2
Total farm assets	270.5	442.3	972.2	856.1	771.4	702.0
% return to assets	3.0	4.0	2.0	3.3	2.4	3.0

Average for period.

Farm Income, Return, Assets, and Debts

	Average for period						
	1970-71	1972-74	1975-79	1980-84 \$ billion	1985	1986 ^F	1987 ^F
Gross farm income	57.3	85.4	111.1	149.1	156.3	150.4	150.5
Returns to operator	13.4	25.4	20.3	16.3	25.7	24.7	28.7
Returns to assets, labor, mgmt	18.8	33.9	33.3	42.0	51.1	46.8	50.0
Returns to assets	8.5	20.8	15.8	18.8	27.9	23.1	25.8
Returns to equity	5.2	16.3	6.8	-0.6	9.9	7.7	10.8
Equity in assets1	225.7	293.3	495.6	788.1	657.3	579.3	521.4
% return to equity	2.3	5.6	1.5	-0.1	1.5	1.3	2.1
Total farm assets ¹	275.4	354.5	596.6	972.2	856.0	771.4	706.7
% return to assets	3.1	5.9	2.7	2.0	3.3	3.0	3.7

^{1/} December 31 of previous year.

Farm Income, Return, Assets, and Debts

	Average for period						
	1970-71	1972-74	1975-79	1980-84	1985	1986 ^F	1987 ^F
			Bi	ilion 1982 do	oliars		
Gross farm income	132.7	170.3	162.4	152.3	139.9	131.4	127.3
Returns to operator	31.1	50.7	30.1	16.5	23.0	21.6	24.3
Returns to assets, labor, mgmt	43.4	67.5	48.9	42.6	45.7	40.9	42.3
Returns to assets	19.6	41.6	22.8	18.9	25.0	20.2	21.8
Returns to equity	12.0	32.6	10.2	-0.8	8.9	6.7	9.1
Equity in assets ¹	522.5	583.5	720.8	807.2	588.5	505.9	441.1
% return to equity	2.3	5.6	1.5	-0.1	1.5	1.3	2.1
Total farm assets ¹	637.6	705.8	867.6	994.1	766.4	673.7	597.9
% return to assets	3.1	5.9	2.7	2.0	3.3	3.0	3.7

^{1/} December 31 of previous year.

Farm Sector Balance Sheet, Excluding Dwellings

	1985	1986 ^F	Percent change	1987 ^F	Percent change
Assets					
Real estate	559.6	509	-9	474	-7
Total	771.4	707	-8	669	-6
Liabilities					
Real estate	97.3	92	-5	89	-3
CCC	16.9	22	30	17	-23
Total	192.1	186	-3	174	-6
Equity	579.3	520	-10	494	-5
D/A ratio	24.9	26.4		26.1	

Farms and Farm Operator Debt

Orahilari atah	No	Low	High	77. A . A
Cashflow status	debt	debt	debt	Total
Positive household earnings				
Percent of all farms	22	23	10	55
Percent of debt	0	21	29	59
Percent of production	15	33	19	67
Negative household earnings				
Percent of all farms	18	16	11	45
Percent of debt	0	13	37	50
Percent of production	5	12	16	33
All farms				
Percent of all farms	40	39	21	100
Percent of debt	0	34	66	100
Percent of production	20	45	35	100

As of January 1, 1986.

Flow of Funds to Farm Sector

	Average for period						
	1970-71	1972-74	1975-79	1980-84 \$ billion	198 5	1986 ^F	1987 ^F
Gross cash income	55.7	83.2	107.9	149.0	156.2	150.3	150.4
Less: Expenses (no interest)	32.5	43.9	64.8	88.0	87.4	86.7	85.2
Equals: Cash flow	23.2	39.3	43.1	61.0	68.8	63.6	65.2
Less: Interest paid	3.3	4.5	8.7	19.3	17.9	15.3	15.0
Equals: Net cash flow	19.9	34.8	34.4	41.7	50.9	48.3	50.2
Plus: Net borrowing	3.4	7.5	14.9	8.0	-14.9	-11.1	-6.2
Equals: Funds available	23.3	42.3	49.3	49.7	36.0	37.2	44.0

Flow of Funds to Farm Sector

	Average for period						
	1970-71	1972-74		1980-84 Illon 1982 do	1985 Ilars	1986 ^F	1987 ^F
Gross cash income	128.9	165.7	157.8	152.2	139.8	131.3	127.2
Less: Expenses (no interest)	75.1	87.4	94.5	90.1	78.2	75.7	72.1
Equals: Cash flow	53.8	78.3	63.3	62.2	61.6	55.6	55. 2
Less: Interest paid	7.6	8.9	12.8	19.6	16.0	13.4	12.7
Equals: Net cash flow	46.1	69.3	50.7	42.4	45.6	42.2	42.5
Plus: Net borrowing	7.8	14.9	21.4	8.7	-13.3	-9.7	-5.2
Equals: Funds available	53.9	84.3	72.1	51.2	32.2	32.5	37.2

Cost Reducing Technology - Early Adoption

	Old	New
Corn Yield (bu)	140	130
Corn Return (@ \$2.00/bu)	\$280	\$260
Production Costs	\$250	\$220
Net Returns	\$ 30	\$ 40

Cost Reducing Technology - Widespread Adoption

	Old	New
Corn Yield (bu)	140	130
Corn Return (@ \$2.00 old and \$1.80 new)	\$280	\$234
Production Costs	\$250	\$220
Net Returns	\$ 30	\$ 14

Input Indices

	Total Inputs	Farm <u>Labor</u>	Farm Real Estate	Mechanical Power	Agricultural Chemicals	Cropland Harvested (Million acres)
			1977	7 = 100		
1940	97	416	107	36	9	341
1950	101	309	109	72	19	345
1960	98	206	103	83	32	324
1970	97	126	105	85	7 5	293
1980	103	92	103	101	123	352
1985	100	79	98	86	120	347

Output Increasing Technology - Early Adoption

	Old	New
Corn Yield (bu)	140	160
Corn Return (@ \$2.00/bu)	\$280	\$320
Production Costs	\$2 50	\$280
Net Returns	\$ 30	\$ 40

Output Increasing Technology - Widespread Adoption

	Old	New
Corn Yield (bu)	140	160
Corn Return (@ \$2.00 old and \$1.80 new)	\$280	\$288
Production Costs	\$2 50	\$280
Net Returns	\$ 30	\$ 8

Productivity Indices

	Output per Unit Total Input	Crop Production per Acre	Output per Hour
		1977 = 100	
1940	52	53	12
1950	61	59	19
1960	77	77	37
1970	87	88	66
1980	101	100	112
198 5	117	118	139



Economic Research Service Data Bases Available

The U.S. Department of Agriculture's Economic Research Service has developed a series of computerized data bases covering important elements of today's agribusiness and related activities here and abroad.

The data bases are:

Cameroon's Grain Egypt's Grain Exchange Rates Farm Income Farm Machinery Statistics Farm Real Estate Fertilizer Use Food, Beverages, and Tobacco Irrigated Farms Israel's Grain Local Government Finances Nigeria's Grain Pesticide Use Policy Impact Codes **Rural Fire Protection Facilities** Saudi Arabia's Grain Turkev's Grain U.S. Dry Beans World Production Indexes



For more details and prices, contact ERS/DATA Room 228 1301 New York Ave. Washington, D.C. 20005



Order Direct and Save!

Check these new, reduced subscription rates now offered on a user fee, cost-recovery basis from USDA's Economic Research Service

AGRICULTURAL OUTLOOK. 11 Issues annually averaging 52 pages. Subscribe from ERS for \$26 domestic; \$32.50 foreign. USDA's official outlet for farm income and food price forecasts. Data and discussion of issues ranging from international trade to prospects for commodity supply and demand, food marketing, agricultural policies, and other major issues affecting agriculture and the economy.

FARMLINE. 11 issues annually averaging 20 pages. Subscribe from ERS for \$14 domestic; \$17.50 foreign. Farm economic information in an easily read style, reinforced with charts and statistics for those without time to review all the technical reports from ERS. Reports on all economic topics important to those involved in agriculture, with the focus on the causes and implications.

NATIONAL FOOD REVIEW. Quarterly averaging 40 pages. Subscribe from ERS for \$9.00 domestic; \$11.25 foreign. The latest developments in food prices, product, safety, nutrition programs, consumption patterns, marketing, and processing technology for those who manage, monitor, or depend on the Nation's food system.

HOW TO ORDER. Check the box for each publication or insert the number of extra subscriptions you wish to order. Write one check or money order to cover total charges. You will receive a copy of the most current issue, and a letter acknowledging your subscription. Do not send cash. No credit cards. Sorry, no refunds. Foreign customers note: Only checks drawn on U.S. banks, cashier's checks, or international money orders accepted. For additional information, call (202) 786-1494.

Publication ☐ Agricultural Outlo 11 issues		Outside U.S. \$32.50			
Farmline 11 issues	\$14.00	\$17.50			
□ National Food Rev Quarterly	view \$ 9.00	\$11.25			
Enciosed is my check or money order for \$ Make check or money order payable to USDA/ERS and mail to: ERS Publications USDA, Room 228 1301 New York Ave., N.W. Washington, DC 20005-4788					
Name					
Company or Organization					
Street address or Post Office Box no.					
City State Zip code					
Daytime phone					
OFFICE USE ONLY					
Date Rec'd Pu	be Rec'd	Last issue			
Amount Fir	et issue				